

**Spett.le**

Istituto Comprensivo L.Montini

C.da Colle delle Api - Via Giovannitti

86100 CAMPOBASSO (CB)

**Destinatario**

Istituto Comprensivo L.Montini

C.da Colle delle Api - Via Giovannitti

86100 CAMPOBASSO (CB)

Iva da versare a cura del cessionario o committente ai sensi dell'art. 17-ter del D.P.R. n. 633/1972 (scissione dei pagamenti)

**Preventivo n° 528 del 07/09/2023**

CONTO 9013210	PARTITA IVA	CODICE FISCALE 92070270704	CATEG	ZONA	PORTO	DATA CONSEGNA 31/05/2024
PAGAMENTO 506 BONIF.BANC. 30 GG. Data Fatt.			BANCA -			

ARTICOLO	DESCRIZIONE	UMP	QUANTITÀ	PREZZO	SCONTO	IMPORTO	C.IVA
	Monitor Touch Interattivo HikVision DS-D5B65R	PZ	7,000				5002
	Pc OPS HikVIision i5-9400/8Gb/256Gb/W10P DS-D5AC9C5-8S2	PZ	7,000				5002
	Carrello per 65" regolazione elettronica dell'altezza con telecomando DBL07184S	PZ	5,000				5002
	Carrello per 65" HikVision, regolazione altezza manuale DS-DSABKY2-S	PZ	2,000				5002
	Webcam Logitech Rally 960-001218	PZ	1,000				5002
	Treppiedi Compact Action	PZ	1,000				5002
	Tablet Lenovo Tab M10 Plus 3 gen con accessor Wifi 4Gb 64Gb	PZ	72,000				5002
	Carrello di ricarica 12 tablet, esagonale UNIT12NB	PZ	4,000				5002

Note :

Ns. banca di riferimento: **BANCA INTESA SANPAOLO**

IBAN **IT02H0306903805100000007522**

C.IVA	IMPONIBILE	% IVA	IMPOSTA	TITOLO DI IMPOSTA	SP. IMBALLO	SP. TRASPORTO	SP. INCASSO
					TOTALE MERCE	TOT.IMPONIBILE	TOT.IMPOSTA

TIMBRO E FIRMA PER ACCETTAZIONE

TOTALE DOCUMENTO

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ARTICOLO	DESCRIZIONE	UMP	QUANTITÀ	PREZZO	SCONTO	IMPORTO	C.IVA
	Carrello di ricarica con 2 multip. incluse LKSCA162	PZ	2,000				5002
	Notebook Dell 13,3" Latitude 3340 + Pen 210-BGCL i3-1215U/8Gb/256Gb/Touch/W10Pro Edu	PZ	20,000				5002
	Carrello di ricarica 30 tablet	PZ	1,000				5002
	iRobot Education Root rt0 Kit 6pz	PZ	4,000				5002
	Photon Robot - Robotics & Coding Kit	PZ	4,000				5002
	Photon Robot - AI Discovery Kit	PZ	2,000				5002
	BlueBot Kit 6pz	PZ	1,000				5002
	EdPuzzle Pro School 3Y 600-800 formazione inc	PZ	1,000				5002
	Genially Edu Pro 3y 20 Docenti	PZ	1,000				5002
	WeVideo For School 100 utenti 1 anno	PZ	1,000				5002
	Banco trapezoidale Rovere SPH64	PZ	24,000				5002
	Sedia ONEPIECE T4	PZ	24,000				5002

Note :

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C.IVA	IMPONIBILE	% IVA	IMPOSTA	TITOLO DI IMPOSTA	SP. IMBALLO	SP. TRASPORTO	SP. INCASSO	
					TOTALE MERCE	TOT.IMPONIBILE	TOT.IMPOSTA	
<b>TIMBRO E FIRMA PER ACCETTAZIONE</b>							<b>TOTALE DOCUMENTO</b>	

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PAGAMENTO 506 BONIF.BANC. 30 GG. Data Fatt.			BANCA -			

ARTICOLO	DESCRIZIONE	UMP	QUANTITÀ	PREZZO	SCONTO	IMPORTO	C.IVA
	Pouf Rettangolare PF.CP.RT.M5.SI.X	PZ	8,000				5002
	Tavolo Coding Rettangolare T.RBTL.236125.MXfN	PZ	1,000				5002
	Notebook Acer 14" CHROMEBOOK CELERON N4020 4GB 64GB SSD CHROME OS	PZ	48,000				5002
	ClassVR Portal + Avanti's World 3Y	PZ	1,000				5002
	Carrello di ricarica 40 postazioni CON RUOTE MULTIPRESE INCLUSE VENTOLE DI RAFFREDDAMENTO PORTA IN ACCIAIO TRAFORATA COLORE GRIGIO NERO	PZ	2,000				5002
	Logitech Brio Stream 960-001194	PZ	1,000				5002
	Book Creator (costo per docente)	PZ	1,000				5002
	Totale	PZ	1,000	112.329,70		112.329,70	5002

Note :

Ns. banca di riferimento: **BANCA INTESA SANPAOLO**

IBAN **IT02H0306903805100000007522**

C.IVA 5002	IMPONIBILE € 112.329,70	% IVA 22,00	IMPOSTA € 24.712,53	TITOLO DI IMPOSTA IVA22% DPR633/72	SP. IMBALLO	SP. TRASPORTO	SP. INCASSO
					TOTALE MERCE € 112.329,70	TOT.IMPONIBILE € 112.329,70	TOT.IMPOSTA € 24.712,53

TIMBRO E FIRMA PER ACCETTAZIONE

TOTALE DOCUMENTO  
**€ 137.042,23**

# Banchi e Carrello esagonale ricarica



# LOOM

## Sistema 4.0



L'aula oggi cambia forma  
è quella di domani.

Crea gruppi di lavoro con i nuovi banchi trapezoidali e completali con le colonnine di alimentazione.

Tutto l'arredo è robusto e facile da spostare per formare isole, penisole o linee di lavoro più o meno numerose all'interno dell'aula.

La colonnina con sei ruote è facile da posizionare al centro di un'isola di lavoro, tiene sempre efficienti i dispositivi e permette di riposizionarli comodamente sotto chiave al suo interno anche durante le pause.

eugeni  
Tecnologie



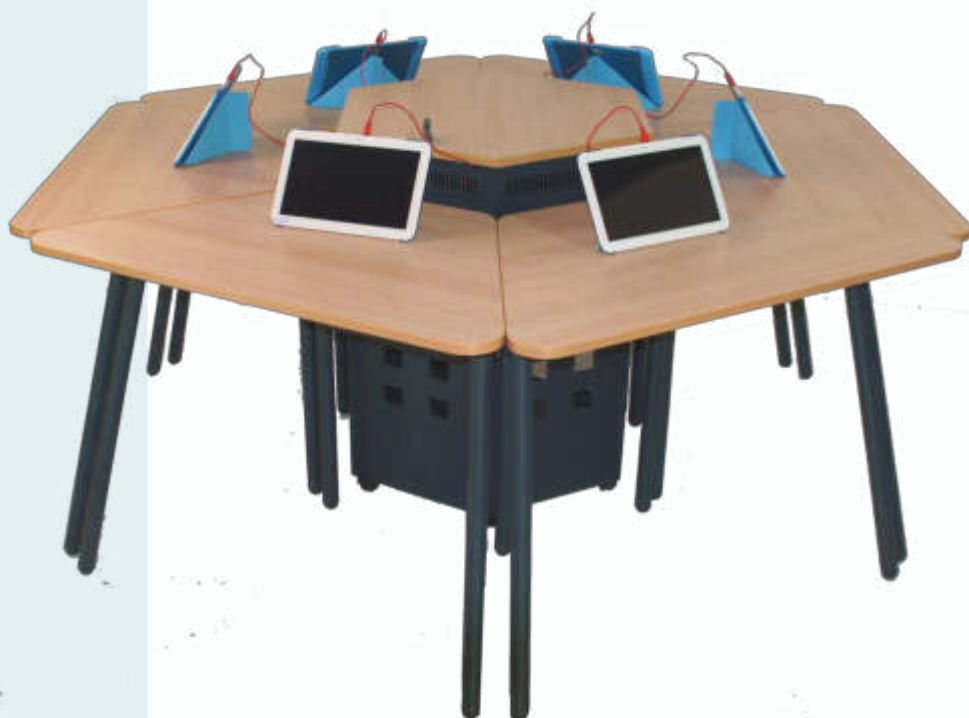
## Sistema arredo 4.0 – Il banco singolo

Il banco **Spicchio** ha una forma trapezoidale e una struttura stabile, leggera e maneggevole, grazie ai piedi sferici in plastica ogni banco può essere spostato in ogni direzione all'interno dell'aula con gesti semplici e senza fatica.

Spicchio è studiato per adeguare fisicamente l'aula all'uso con dispositivi elettronici, ed è anche dotato di una tasca per riporre quaderni e Tablet



## L'Isola "a Spicchi" per il lavoro di gruppo

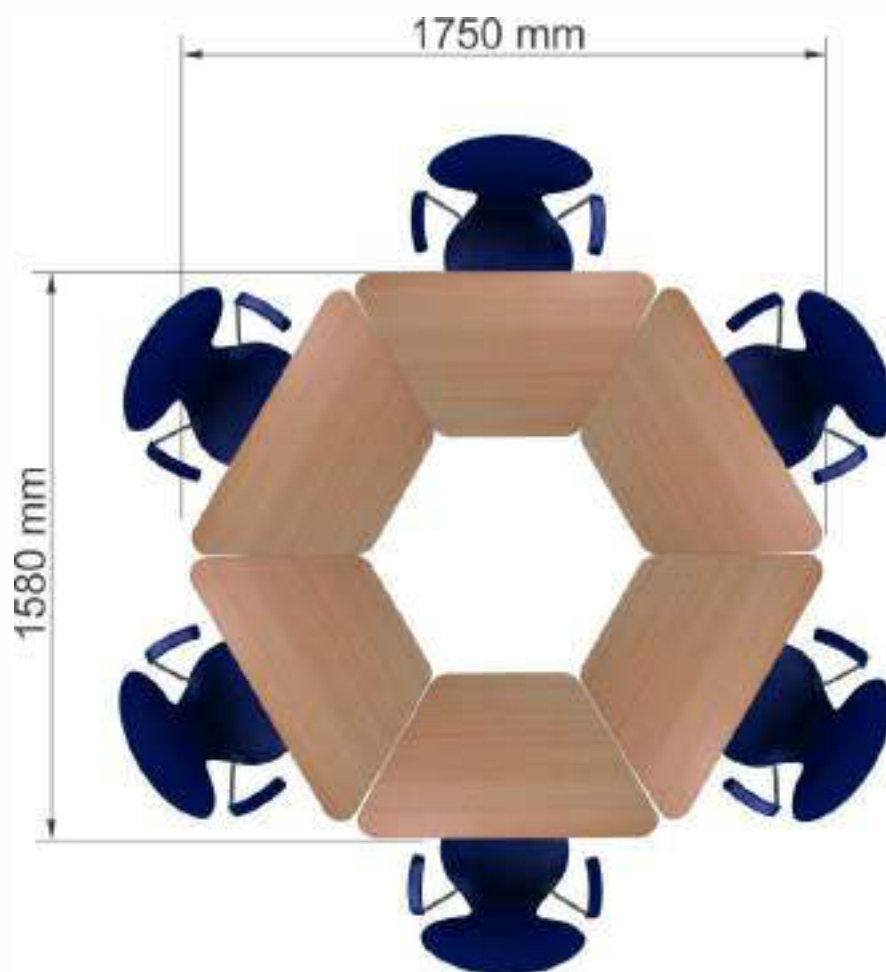


La forma trapezoidale di "**Spicchio**" permette la creazione della classica isola esagonale, o altre forme con più postazioni per il lavoro di gruppo

Nello spazio al centro delle isole, o nei lati di altre configurazioni, puoi posizionare la colonna a sezione esagonale "**Unica T12**"

Puoi così alimentare i dispositivi durante l'uso e stivarli al suo interno nelle pause e a fine lezione.

## Mille modi di disporre i tuoi banchi e i tuoi studenti per formare tanti modelli di gruppi di lavoro



### Caratteristiche Banco singolo "Spicchio"

<b>Ingombro piano di lavoro</b>	84x50 cm
<b>Altezza</b>	71 cm o 76 cm
<b>Struttura</b>	Tubo di acciaio diametro 30 mm piegato e saldato su lamiera stampata. Le strutture possono essere impilate previo semplice smontaggio dei piani.
<b>Verniciatura</b>	Polveri epossidiche a forte spessore colore grigio antracite
<b>Piedini</b>	In nylon duro con contatto sferico per scorrimento in tutte le direzioni
<b>Piano lavoro</b>	Melaminico spessore 18 mm, anti graffio, anti riflesso, bordato in ABS antiurto e anti shock Finitura in venatura legno di rovere sbiancato. Angoli con raggio 50 mm
<b>Tasca inferiore</b>	Per quaderni, tablet e alimentatore in lamiera stampata
<b>Certificazione</b>	UNI EN 1729-2 sulla sicurezza in ambiente scolastico conseguita da laboratorio Italiano accreditato
<b>Optional- colori dei piani</b>	In tinta unica senza venatura in giallo, verde, blu e arancio

# LOOM

## Unica T12



### **Arredo 4.0 - La colonnina di alimentazione continua rimessaggio e ricarica fino a 12 Tablet oppure fino a 6 Notebook**

Colonna di alimentazione e stivaggio Tablet in lamiera stampata e verniciata con polveri epossidiche a forte spessore, ruote doppie girevoli e coperchio superiore in melaminico con chiusura ammortizzata e serratura, vano per cavo di alimentazione.

**Unica T12** si può posizionare a piacere al centro o a lato di ogni gruppo di banchi e al suo interno si possono stivare comodamente ben 12 Tablet, fino a 12 pollici anche completi di custodia e tastiera oppure fino a 6 notebook. Tutti i dispositivi, possono sempre restare comodamente collegati al cavetto sia dentro che fuori.

Unica T12 è anche un vero e proprio carrello carica Tablet per stivare in sicurezza fino a 12 tablet o 6 Notebook, (ogni Notebook occupa lo spazio di due tablet)

**eugeni**  
Technologie





Ma il cuore pulsante di **Unica T 12** è l'alimentazione intelligente **"AIR"**, (**Automatic Individual Regulation**) dove ogni Tablet dispone di una presa USB con regolazione automatica indipendente, per fornire sempre e solo l'energia necessaria e sospenderla del tutto quando carico al 100%

Su **Unica T12** i Tablet possono restare sempre connessi senza per questo sollecitare le batterie in tutta sicurezza, anche protetti da eventuale sovraccarico anomalo o corto circuito, mentre per i Notebook, vanno previsti gli alimentatori originali collegati ad una multipresa a 6 posti con interruttore sulla base.



### Caratteristiche colonnina di alimentazione "Unica T12"

<b>Dimensioni e peso</b>	Larghezza 51-63 cm – altezza 81 cm - peso 27 kg a vuoto.
<b>Ruote</b>	doppie e girevoli su ogni spigolo della base
<b>Struttura</b>	Lamiera di acciaio stampata spessore 12/10 con vani separati per cavo alimentazione, dispositivi ed elettronica.
<b>Verniciatura</b>	Polveri epossidiche a forte spessore colore grigio antracite
<b>Coperchio</b>	Rivestito in melaminico venatura legno di rovere sbiancato. Cerniere in acciaio con chiusura e apertura assistite da pistone a gas, serratura con doppia chiave pieghevole (disponibilità di chiave pass par tout per più colonnine)
<b>Vano dispositivi</b>	Con inserti per 12 Tablet fino a 12" anche completi di custodia e tastiera, oppure fino a 6 Notebook o anche 6 Tablet + 3 Notebook
<b>Apparecchiatura di alimentazione e carica</b>	
<b>Tipo alimentazione</b>	N° 12 Prese USB disponibili sul vano dei Tablet. Sistema regolazione intelligente "AIR" indipendente per ogni Tablet
<b>Corrente massima erogabile</b>	Regolata automaticamente da zero a max 2,5 Amp per ogni presa contemporaneamente su tutte le prese.
<b>Protezioni</b>	Sovraccarico, corto circuito più interruttore generale sul pannello con spia luminosa per i Tablet, Multipresa con interruttore in vano separato sulla base per i Notebook.
<b>Cavo alimentazione</b>	5 Mt stivabile sulla base

*Il sottoscritto Giarelli Daniele, nato a Montegiorgio (FM) il 08/03/1977, Codice fiscale GRLDNL77C08F520J, legale rappresentante della Ditta Eugeni Technologie Srl Unipersonale, Viale America 16/A – Magliano di Tenna (FM) – P.IVA 02260940446, consapevole della responsabilità e delle sanzioni penali previste dall'art. 76 del D.P.R. 445/2000 per false attestazioni e dichiarazioni mendaci e sotto la propria responsabilità:*

**DICHIARA**

*Che gli arredi della serie **Loom** (SPICCHIO – UNICA – CRONO – PRIORA – BANCHI BIPOSTO – SEDIE) sono conformi ai Criteri Ambientali Minimi “CAM” - decreto DM 23.06.2022 tipologia “Arredi scolastici”*

Per i Pannelli ecologici in Truciolare Nobilitato sono state applicate le seguenti normative:

Ente	Denominazione
Certquality	UNI EN ISO 9001:2015 – Sistema gestione della qualità
Fsc	N° Cert:-CQ-COC- 000001 – FSC Recycled 100 %
Pefc	N° Certificato 24414
Certquality	LIG 01/ 2000 – Certifica l'esclusivo utilizzo di legno di riciclo nella produzione di Pannello Truciolare Grezzo
Catas	CATAS Quality Award Formaldeide E1
Certquality	REMADE in ITALY – Certifica il riciclo sostenibile in Italia

Per il metallo e le vernici sono state applicate le seguenti normative:

Ente	Denominazione
IGQ	UNI EN ISO 14021 – Coil, nastri e lamiere di acciaio con contenuto minimo di materiale riciclato post-consumatore del 69%
IGQ	UNI EN ISO 14021 – Coil, nastri e lamiere di acciaio per impieghi civili e strutturali, in accordo alle norme EN 10025 d 1 a 6 e per prodotti zincati secondo UNI EN 10346, con contenuto minimo di materiale riciclato post-consumatore del 80%
REACH	REACH (CE) n. 1907/2006 - NON È PRESENTE alcuna delle 233 sostanze della Candidate List (Substances of Very High Concern) aggiornata in data 17/01/2023 e pubblicata all'indirizzo <a href="https://echa.europa.eu/it/candidate-list-table">https://echa.europa.eu/it/candidate-list-table</a> in quantitativi > 0,1% (peso/peso)
VOC-A+	VOC-A+

Magliano di Tenna li 05/09/2023



Il sottoscritto DANIELE GIARELLI nato a MONTEGIORGIO (FM) il 08/03/1977 residente a FALERONE (FM) in via POZZO, n. 132 CAP 63837 indirizzo e-mail: AMMINISTRAZIONE@EUGENI.IT tel. 0374632644, in qualità di: AMMINISTRATORE UNICO della ditta: EUGENI TECNOLOGIE SRL con sede legale a MAGLIANO DI TENNA (FM) cap 63832 in viale AMERICA indirizzo e-mail/PEC: EUGENITECNOLOGIE@PEC.IT C.F. 02260940446 Partita IVA 02260940446 nell'ambito della procedura di affidamento per il progetto PNRR Azione 1: Next Generation Classrooms – Ambienti di apprendimento innovativi” - **Codice del Progetto: M4C1I3.2-2022-961-P-12084 - Titolo: Dire, fare, collaborare, pensare...creare! - C.U.P: G64D22007770006**

#### DICHIARA

sotto la propria responsabilità ed in piena conoscenza della responsabilità penale prevista per le dichiarazioni false dall'art.76 del D.P.R. n. 445/2000 e dalle disposizioni del Codice penale e dalle leggi speciali in materia ai sensi degli articoli 46 e 47 del D.P.R. 445/2000, quanto segue:

- 1) Di essere a conoscenza di quanto previsto dalla [circolare del MEF-RGS n. 33 del 13 ottobre 2022](#) che contiene, in allegato, una Guida operativa per il rispetto del principio DNSH, con le relative schede di autovalutazione dell'obiettivo di mitigazione dei cambiamenti climatici per ciascun investimento e check list;
- 2) Che in relazione alla linea di investimento **PNRR** le forniture di beni, servizi e lavori, eventualmente affidate all'impresa di cui sono legale rappresentante, rispondono ai seguenti requisiti/principi DNSH:

**Scheda 3 allegata alla [circolare del MEF-RGS n. 33 del 13 ottobre 2022](#)**

#### Acquisto, Leasing e Noleggio di computer e apparecchiature elettriche ed elettroniche

##### Verifiche e controlli da condurre per garantire il principio DNSH

Tempo di svolgimento delle verifiche	n.	Elemento di controllo	Esito (Si/No/Non applicabile)	Commento (obbligatorio in caso di N/A)	
Ex-ante	1	E' disponibile l'iscrizione alla piattaforma RAEE in qualità di produttore e/o distributore e/o fornitore?	<b>SI</b>		
	2	I prodotti elettronici acquistati sono dotati di un'etichetta ambientale di tipo I, secondo la UNI EN ISO 14024, ad esempio TCO Certified, EPEAT 2018, Blue Angel, TÜV Green Product Mark o di etichetta equivalente)	<b>NON APPLICABILE</b>	<i>Non ci sono elementi elettronici attivi</i>	
	In caso di assenza di un'etichetta ambientale di tipo I dovranno essere verificati i requisiti seguenti al posto del punto 2				
	3	L'AAE è dotata di Etichetta EPA ENERGY STAR?			
	In alternativa al punto 3, rispondere al punto 3.1				
	3.1	E' disponibile una dichiarazione del produttore che attesti che il consumo tipico di energia elettrica (Etec), calcolato per ogni dispositivo offerto, non superi il TEC massimo necessario (Etec-max) in linea con quanto descritto nell'Allegato III dei criteri GPP UE?			
	4	Nel caso di server e prodotti di archiviazioni dati, è disponibile la dichiarazione dei produttori/fornitori di conformità alla seguente normativa: ecodesign (Regolamento (EU) 2019/424)?			
5	Nel caso di computer fissi e display, è presente la marcatura di alloggiamenti e mascherine di plastica secondo gli standard ISO 11469 e ISO 1043?				

6	<p>Nel caso di fornitura di apparecchiature TIC ricondizionate/rifabbricate, è disponibile una delle certificazioni di sistema di gestione seguente:</p> <ul style="list-style-type: none"> <li>• ISO 9001 e ISO 14001/regolamento EMAS (certificazione di sistema di gestione disponibile sotto accreditamento –il campo di applicazione della certificazione dovrà riportare lo specifico scopo richiesto);</li> <li>• E N 50614:2020 (qualora l'apparecchiatura sia stata precedentemente scartata come rifiuto RAEE, e preparata per il riutilizzo per lo stesso scopo per cui è stata concepita)?</li> <li>•</li> </ul>		
7	<p>E' disponibile una dichiarazione del produttore/fornitore di rispetto della seguente normativa: REACH (Regolamento (CE) n.1907/2006); RoHS (Direttiva 2011/65/EU e ss.m.i.); Compatibilità elettromagnetica (Direttiva 2014/30/UE e ss.m.i.)?</p>		
8	<p>Sono state indicate le limitazioni delle caratteristiche di pericolo dei materiali che si prevede utilizzare (Art. 57, Regolamento CE 1907/2006, REACH)?</p>		
<p><b>Alle apparecchiature per stampa, copia, multifunzione e servizi di Print&amp;Copy si applica un requisito trasversale</b></p>			
9	<p>E' verificata la conformità alle specifiche tecniche e clausole contrattuali dei Criteri ambientali minimi "Affidamento del servizio di stampa gestita, affidamento del servizio di noleggio di stampanti e di apparecchiature multifunzione per ufficio e acquisto o il leasing di stampanti e di apparecchiature multifunzione per ufficio, approvato con DM 17 ottobre 2019, in G.U. n. 261 del 7 novembre 2019" ?</p>		

lì, Magliano di Tenna 04/09/2023

Firma del titolare o legale rappresentante



**Allegato:**

- [eventuale, ove il documento non sia sottoscritto digitalmente] copia firmata del documento di identità del sottoscrittore, in corso di validità.



# Carrelli di ricarica

## LKSCA162



### ARMADIO ALLOGGIAMENTO 16 NOTEBOOK O TABLET CON DUE MULTIPRESE 8 POSIZIONI

Codice prodotto: **LKSCA162**

Codice EAN: **8028400075437**

Unità: **NR**

Marca: **LINK**

Peso: **28,000 Kg.**

Armadio con chiusura a chiave che permette la protezione dei notebook e tablet custoditi all'interno.

Con 2 multiprese da 8 porte con prese universali e spina 16A tripolare italiana.

Le multiprese sono posizionate nella parte posteriore sui montanti 19".

Permettono l'inserimento dei caricatori dei notebook, tablet o smartphone.

I dispositivi si posizionano in verticale sul ripiano estraibile, separati da dei divisori.

I cavi di alimentazione si possono fissare con le fascette incuse.

Ideale per scuole o uffici.

Con due multiprese posteriori 8 porte ciascuna, a cui collegare i cavi e gli adattatori dei dispositivi da ricaricare.

L'armadio è in acciaio, assicura la protezione dei dispositivi interni, e ne permette l'aerazione grazie alle fessure laterali e alla porta grigliata.

Capacità: 16 tablet o 16 laptop fino a 15.6" in verticale.

Ci si possono alloggiare dispositivi di misura massima cm 25 x 36, altezza cm 2,3.

Con piedini, si può anche installare a muro.

Ruote incluse.

La porta anteriore e posteriore hanno la chiusura a chiave, e sono reversibili.

Entrata dei cavi di alimentazione dai due lati.

# LKSCA162

Misure: cm 55,5 (L) x 55 (P) x 41 (A)





Emmegi Ricambi S.p.a.

Sede: Via Marino Serenari, 35 – 40033 – Castelmaggiore (BO)



## Dichiarazione di conformità

Il sottoscritto Fausto Tomesani

In qualità di legale rappresentante della ditta Emmegi Ricambi S.p.a.

con sede in: Via Marino Serenari, 35 – 40033 – Castelmaggiore (BO)

Partita IVA: 04264830375

### Dichiara

che il prodotto: Armadio Rack

Modello e codice: **LKSCA162**

È stato costruito rispettando le seguenti direttive e norme:

- Direttiva 2014/35/UE nota come "Direttiva bassa tensione"
- Direttiva 2014/30/UE nota come "Direttiva compatibilità elettromagnetica"
- Direttiva 2011/65/CE nota come "RoHS"
- Direttiva delegata (UE) 2015/863 recante modifica dell'allegato II della direttiva 2011/65/UE
- Direttiva 2012/19/UE nota come "RAEE"
- Direttiva 2001/95/CE nota "Sicurezza generale dei prodotti"
- Norma IEC 61882:2016 metodo di analisi dei rischi secondo il metodo HAZOP
- [EN 55032:2015+A1:2020](#), [EN 55035:2017 + A11:2020](#), [EN 61000-3-3:2013/A2:2021/AC:2022-01](#) [EN IEC 61000-3-2:2019+A1:2021](#)

Ed è quindi conforme alle direttive e normative vigenti.

La presente dichiarazione di conformità è rilasciata sotto la responsabilità esclusiva del fabbricante.

Data: 11/04/2023

Luogo: Castel Maggiore

Firma:



MarcaturaCE.net

CEC.Group S.r.l. - Via Lauro, 95 – 35010 - Cadoneghe (PD) – Italy

Consulenti e Periti per: Guardia di Finanza, Tributaria, Autorità Doganali,  
Carabinieri,  
Polizia di Stato, Unioncamere, Tribunali.

La consulenza sull'impostazione del modello fascicolo tecnico è stata fornita dalla ditta CEC.group S.r.l.

CERTIFICATION



# 凯新认证（北京）有限公司 质量管理体系认证证书

注册号：06921Q15813R0M

兹证明

## 盛威安全设备（浙江）有限公司

统一社会信用代码：9133042179649616XE

地址：嘉善县天凝镇东信路 105 号

管理体系符合

**GB/T19001-2016 / ISO9001:2015 标准**

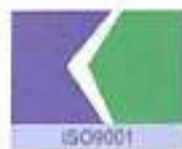
认证覆盖范围

通讯机柜、墙柜的设计、生产和销售（需资质许可除外）

发证日期：2021 年 04 月 06 日

证书有效期至：2024 年 04 月 05 日

注：获证组织必须定期接受监督审核并经审核合格此证书方继续有效，自 2022-01-07 日起，本证书需与《保持认证资格通知书》一并使用。



中国认可  
国际互认  
管理体系  
MANAGEMENT SYSTEM  
CNAS C069-M

本证书可在国家认证认可监督管理委员会网站（www.cnca.gov.cn）、上海凯新认证有限公司网站www.kcbchina.com进行查询，也可通过电子邮件kcb@kcb-china.com进行确认。本证书在  
国家规定的有效期内，请用户可登陆国家认证认可监督管理委员会网站。

Users can login www.cnca.gov.cn or www.kcb-china.com to check the certificate status. It can also be confirmed by means of kcb@kcb-china.com to check the certificate status. To confirm by means of  
kcb@kcb-china.com. This certificate should be used under national specified administrative qualification license scope and within the expiration date.

中国北京市东城区东直门内大街 2 号 2002 室 100027 服务热线：400 614 1188 电话：+8610-6503 5012/1113/15 传真：+8610-6504 1880  
Address: Suite 200, Kuehng Dazheng, Xinhong Road Street #2, Dongzheng District, Beijing, 100027 China. Service hotline: 400 614 1188 Tel: +8610-6503 5012/1113/15 Fax: +8610-6504 1880



Kaixin Certification (Beijing) Co.,Ltd.  
**Certificate of Registration**

Registration No. : 06921Q15813R0M

*This is to certify that*

**Zhejiang Safewell Precision Sheet-metal MFG, Ltd**

Unified Social Credit Code:9133042179649616XE

Address: 105 Dongxin Road, Yanning Town, Jiashan City, China.

*The Management system is in conformity with*

**GB/T19001-2016 / ISO9001:2015 standard**

**Scope: Design, production and sale of communication cabinet  
and wall cabinet (except for qualification license)**

Issue Date : 2021-04-06

Term of Validity : 2024-04-05

**NOTE:**The certified organization must accept the surveillance audit duty, and the audit shall be approved as effective before approving that this certificate can maintain as valid. On and by 2024-04-05, this certificate shall be used together with notice of maintaining certification and registration.



KCB Certification



中国认可  
国际互认  
管理体系  
MANAGEMENT SYSTEM  
CNAS C069-M



# Certificate of Registration



The Governing Board of  
Q.A. International Certification Limited  
hereby grants to:

## SAFEWELL EQUIPMENT (ZHE JIANG) CO., LTD.

Unified Social Credit Code: 9133042179649616XE  
Registration No.: QAIC / CN / 200092

*(hereinafter called the Registered Company) the right to be listed in the Directory of Registered Companies in respect of the services listed below. These services shall be offered by the Registered Company at or from only the active business address given below in accordance with the environmental management system in compliance with ISO 14001:2015.*

Business License Address:

**No.105, Dongxin Road, Tianning Town, Jiashan County, Jiaxing City,  
Zhejiang Province, P.R. China**

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Approved Scope to which this Certificate refers:

**The Manufacture of Communication Cabinets, Wall Cabinets  
and Management of Related Environmental Aspects.**

*(Please note that the above scope represents the certified activity of the named organization and as such, the organization may undertake additional activities that are not covered under this certification).*

Signed for and on behalf of the Board

CHIEF EXECUTIVE

SCHEME MANAGER

Certificate Issue Date : 25th March 2020 - Certificate Renewal Before : 24th March 2021  
Date of Initial Registration : 25th March 2020 - Re-Certification Before : 24th March 2021

This Certificate of Registration is granted subject to the Regulations approved by the Board.  
The information of this certificate can be searched on the website of CNCA ([www.cnca.gov.cn](http://www.cnca.gov.cn)).  
The certified organization should apply for regular audit to maintain its qualification.

**QA INTERNATIONAL**

QA International Certification Ltd  
Dudley Court  
Dudley Road  
Birmingham  
United Kingdom  
DL1 4GG

Tel: +44 (0)121 364212  
Fax: +44 (0)121 409900  
[www.qa.co.uk](http://www.qa.co.uk)



The use of the word 'certification' may only be used in relation to a specific activity or service provided by the organization in accordance with the applicable standard.

## DICHIARAZIONE REACH

L'azienda Emmegi Ricambi S.p.a. è consapevole degli obblighi derivanti dal Regolamento REACH ed è impegnata attivamente nel supportarne gli obiettivi favorendo la comunicazione con i propri fornitori e clienti.

L'azienda Emmegi Ricambi Spa non produce né importa sostanze e, in quanto distributore di accessori per ufficio non è soggetta all'obbligo della registrazione dei propri prodotti. In qualità di utilizzatore a valle di sostanze, l'Azienda Emmegi Ricambi Spa ha provveduto ai seguenti adempimenti: - entro la data termine del 1° Dicembre 2008, si è informata presso i propri fornitori accertandosi positivamente che le sostanze acquistate fossero preregistrate.

La dichiarazione è stata aggiornata secondo l'ultimo aggiornamento: SVHC-candidate list (ultima pubblicazione da ECHA: 17/01/2023 D(2022)9120-DC.).

L'azienda dichiara infine che nei propri prodotti non è contenuta alcuna delle sostanze riportate nella Candidate List e nei successivi aggiornamenti. Future revisioni di questa lista fanno parte di questa dichiarazione se non precisato diversamente.

Per ulteriori informazioni e chiarimenti riguardo il Regolamento REACH vi preghiamo di contattarci ai seguenti contatti: tel. 051 4171211 fax 051 4178797 e-mail [fausto@emmegiricambi.it](mailto:fausto@emmegiricambi.it)

14/04/2023

Emmegi Ricambi Spa  
Tomesani Fausto





## DICHIARAZIONE DI CONFORMITA'

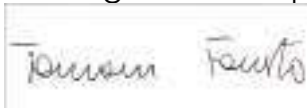
**DIRETTIVA 2011/65/UE DEL PARLAMENTO EUROPEO E DEL CONSIGLIO dell'8 giugno 2011 sulla restrizione dell'uso di determinate sostanze pericolose nelle apparecchiature elettriche ed elettroniche (R.o.H.S.)**

Con la presente si dichiara che i prodotti commercializzati e importati da Emmegi Ricambi spa non includono le sostanze regolamentate dalla normativa in quantitativi superiori ai limiti stabiliti dalla direttiva 2011/65/UE e dalla direttiva delegata 2015/863 del 31 marzo 2015, e dei successivi aggiornamenti.

L'azienda richiede inoltre a tutti i fornitori di applicare in modo scrupoloso il regolamento RoHS, e si impegna a comunicare eventuali variazioni della propria posizione rispetto alla normativa in oggetto.

Distinti saluti.

(Bo), 14/05/2023  
Emmegi Ricambi Spa



# Smaltimento imballaggi:

Al fine di facilitare la gestione dello smaltimento degli imballaggi, riportiamo le indicazioni riguardo agli imballaggi che comunemente accompagnano i nostri prodotti e la relativa destinazione.

	Plastica (LDPE)	Raccolta differenziata plastica	Sacchetti, regge, nastro, nastro plastica avvolgibile, pluriball, distanziatori in plastica, blister.
	Cartone ondulato (PAP)	Raccolta differenziata carta e cartone	Scatole, contenitori multistrato di cartone, lastre di cartone di protezione.
	Carta e cartone (PAP)	Raccolta differenziata carta e cartone	Carta, scatole delle confezioni, Holder dei sacchetti.
	Legno (bancale)	Raccolta differenziata	Bancali

Consultate le disposizioni del vostro comune.

Schiacciate i cartoni e gli imballi in modo che occupino meno spazio possibile.

Schema colore dei cassonetti della raccolta differenziata:



Buongiorno.

In allegato forniamo la documentazione e le indicazioni per gli interventi che prevedano l'acquisto di apparecchiature elettriche ed elettroniche, secondo il principio DNSH correlati al codice NACE: 25.99: Fabbricazione di computer e prodotti di elettronica e ottica.

Il principio del "non arrecare un danno significativo" all'ambiente (anche noto come principio DNSH, cioè "Do No Significant Harm") nasce per coniugare crescita economica e tutela dell'ecosistema, garantendo che gli investimenti siano realizzati senza pregiudicare le risorse ambientali.

A questo scopo il [Regolamento \(UE\) 241/2021](#), istitutivo del Dispositivo di Ripresa e Resilienza, dispone che possano essere finanziate, nell'ambito dei singoli Piani nazionali, soltanto le misure che rispettino il principio DNSH, introdotto dal [Regolamento \(UE\) 2020/852](#), il cd. "Regolamento Tassonomia".

Si parla di *tassonomia delle attività economiche sostenibili* per indicare una classificazione delle attività **sulla base del loro impatto su sei obiettivi ambientali**. In particolare, in base all'art. 17 del Regolamento Tassonomia, si considera che un'attività economica arrechi un danno significativo:

1. alla mitigazione dei cambiamenti climatici, se conduce a significative emissioni di gas a effetto serra;
2. all'adattamento ai cambiamenti climatici, se conduce a un peggioramento degli effetti negativi del clima attuale e del clima futuro previsto sull'attività stessa o sulle persone, sulla natura o sugli attivi;
3. all'uso sostenibile e alla protezione delle acque e delle risorse marine, se l'attività nuoce: al buono stato o al buon potenziale ecologico di corpi idrici, comprese le acque di superficie e sotterranee; al buono stato ecologico delle acque marine;
4. all'economia circolare, compresi la prevenzione e il riciclaggio dei rifiuti, se: - conduce a inefficienze significative nell'uso dei materiali o nell'uso diretto o indiretto di risorse naturali quali le fonti energetiche non rinnovabili, le materie prime, le risorse idriche e il suolo, in una o più fasi del ciclo di vita dei prodotti, anche in termini di durabilità, riparabilità, possibilità di miglioramento, riutilizzabilità o riciclabilità dei prodotti; - l'attività comporta un aumento significativo della produzione, dell'incenerimento o dello smaltimento dei rifiuti, ad eccezione dell'incenerimento di rifiuti pericolosi non riciclabili; - lo smaltimento a lungo termine dei rifiuti potrebbe causare un danno significativo e a lungo termine all'ambiente;
5. alla prevenzione e alla riduzione dell'inquinamento se comporta un aumento significativo delle emissioni di sostanze inquinanti nell'aria, nell'acqua o nel suolo rispetto alla situazione esistente prima del suo avvio;

6. alla protezione e al ripristino della biodiversità e degli ecosistemi se nuoce in misura significativa alla buona condizione e alla resilienza degli ecosistemi o nuoce allo stato di conservazione degli habitat e delle specie, compresi quelli di interesse per l'Unione.

L'acquisto di dispositivi elettronici deve essere quindi effettuato **tenendo in considerazione questi 6 punti**, garantendo lo sforzo di ridurre al minimo l'uso di energia e le emissioni di CO2 correlate, in modo da contribuire alla mitigazione dei cambiamenti climatici.

Inoltre, le soluzioni realizzative, i materiali ed i componenti delle apparecchiature possono comportare l'utilizzo di sostanze pericolose.

Il fine vita di tali apparecchiature comporta la produzione di grandi quantità di rifiuti pericolosi e non.

L'attività in questione non è compresa tra le attività facenti parte della Tassonomia delle attività eco-compatibili (Regolamento UE 2020/852). Pertanto, non vi è un contributo sostanziale, e a questi prodotti si applica quindi unicamente il regime del contributo minimo (Regime 2)

L'Investimento dovrà quindi "non arrecare danno significativo", rispettando i principi DNSH (Regime 2).

Il principio Do No Significant Harm applicato agli obiettivi ambientali relativo ai prodotti oggetto dell'analisi:

### **Mitigazione del cambiamento climatico**

Al fine di garantire il rispetto del principio DNSH connesso con la mitigazione dei cambiamenti climatici e la significativa riduzione di emissioni di gas a effetto serra, dovranno essere adottate tutte le strategie disponibili per l'acquisto di dispositivi elettronici in linea con l'obiettivo di contenere le emissioni.

Elementi di verifica:

Il prodotto non conduce a significative emissioni di gas a effetto serra.

Il prodotto è provvisto di etichetta e istruzioni per lo smaltimento adeguato.

### **Adattamento ai cambiamenti climatici**

Non pertinente. L'acquisto di dispositivi elettronici non comporta impatti significativi specifici sull'adattamento ai cambiamenti climatici.

### **Uso sostenibile e protezione delle acque e delle risorse marine**

Non pertinente. L'acquisto di PC, dispositivi elettronici non comporta impatti significativi sulla tutela delle risorse idriche.

### **Economia circolare**

Le apparecchiature elettroniche utilizzate per l'investimento sono stati prodotti in linea con gli standard più aggiornati in termini di materiale utilizzato, procedure per la gestione dei rifiuti e il riutilizzo dei materiali. La fase di progettazione del prodotto considera l'impatto ambientale durante il suo intero ciclo di vita facilitando il miglioramento delle prestazioni ambientali in modo economicamente efficace, anche in termini di efficienza delle risorse e dei materiali, e quindi

contribuisce ad un uso sostenibile delle risorse naturali.

Elementi di verifica:

- ISO 9001 e ISO 14001 del produttore.
- l'iscrizione alla piattaforma RAEE in qualità di distributore: RAEE: AETEL – BO – 000159/PATEL – BO - 000057

### **Prevenzione e riduzione dell'inquinamento**

Nella costruzione non sono utilizzati componenti, prodotti e materiali contenenti sostanze inquinanti.

Elementi di verifica:

Certificazione Reach

Certificazione RoHS

Certificazione CE

### **Protezione e ripristino della biodiversità e degli Ecosistemi**

Non pertinente.

## LKSCA30B



**ARMADIO ALLOGGIAMENTO 30 TABLET CON  
RUOTE MULTIPRESE INCLUSE VENTOLE DI  
RAFFREDDAMENTO PORTA IN ACCIAIO  
TRAFORATA COLORE GRIGIO NERO**

Codice prodotto: **LKSCA30B**

Codice EAN: **8028400076892**

Unità: **NR**

Marca: **LINK**

Peso: **74,000 Kg.**

Armadio con chiusura a chiave che permette la protezione e l'alimentazione di 30 notebook o tablet custoditi all'interno.

Ideale per scuole o uffici, dove si necessita di un posto sicuro in cui alloggiare dispositivi elettronici, dando la possibilità di ricaricarsi e impedendo il loro surriscaldamento.

Con due multiprese posteriori con 15 prese universali italiane/Schuko ciascuna, a cui collegare i cavi e gli adattatori dei dispositivi da ricaricare.

I dispositivi si posizionano in verticale sui ripiani, separati da divisori.

I cavi di alimentazione per i dispositivi si possono organizzare agganciandoli a delle alette sui ripiani.

Ci si possono alloggiare dispositivi di misura massima cm 28 x 37, altezza cm 2,3.

I separatori dei ripiani sono removibili, in questo modo si possono alloggiare anche notebook o altri dispositivi più larghi.

Con 4 ruote incluse di cui due bloccabili.

Con porte traforate con chiusura a chiave, permette la protezione dei dispositivi contenuti mentre si ricaricano.

Con due ripiani con 15 alloggiamenti per notebook o tablet ognuno.

Con maniglia per facilitare lo spostamento del carrello di ricarica.

L'armadio è in acciaio, colore bianco e bordi arrotondati in plastica neri, si adatta all'arredamento di tutti gli

## **LKSCA30B**

ambienti, con porte traforate, assicura la protezione dei dispositivi interni, e ne permette l'aerazione grazie alla porta grigliata e alle quattro ventole di raffreddamento incluse (due per lato).

La porta anteriore e posteriore hanno la chiusura a chiave.

Cavo di alimentazione incluso con spina italiana 16A Lunghezza metri 2,5.

Durante gli spostamenti dell'armadio il cavo si può alloggiare nell'apposito vano.

Con alimentatore incluso AC200/110V con funzione di protezione contro sovraccarichi.

Misure con ruote (LxPxA): cm 60x60x102 Misure senza ruote (LxPxA): cm 60x60x86

# CE

## *Dichiarazione di conformità*

Il sottoscritto Fausto Tomesani

In qualità di legale rappresentante della ditta Emmegi Ricambi S.p.a.

con sede in: Via Marino Serenari, 35 – 40033 – Castelmaggiore (BO)

Partita IVA: 04264830375

### *Dichiara*

che il prodotto: Armadio Rack

Modello e codice: **LKSCA30B**

È stato costruito rispettando le seguenti direttive e norme:

- Direttiva 2011/65/CE nota come "RoHS"
- Direttiva delegata (UE) 2015/863 recante modifica dell'allegato II della direttiva 2011/65/UE
- Direttiva 2012/19/UE nota come "RAEE"
- Direttiva 2001/95/CE nota "Sicurezza generale dei prodotti"
- Norma IEC 61882:2016 metodo di analisi dei rischi secondo il metodo HAZOP
- EN55032:2015, EN55035:2017, EN IEC 61000-3-2:2019, EN 61000-3-3:2013/A1:2019

Ed è quindi conforme alle direttive e normative vigenti.

La presente dichiarazione di conformità è rilasciata sotto la responsabilità esclusiva del fabbricante.

Data: 27/02/2023

Luogo: CASTEL MAGGIORE

Firma:



**MarchaturaCE.net**

**CEC.Group S.r.l.** - Via Lauro, 95 – 35010 - Cadoneghe (PD) – Italy

**Consulenti e Periti per: Guardia di Finanza, Tributaria, Autorità Doganali, Carabinieri, Polizia di Stato, Unioncamere, Tribunali.**

**La consulenza sull'impostazione del modello fascicolo tecnico è stata fornita dalla ditta CEC.group S.r.l.**



# Certificate of Conformity

NO.: EN201127002S

The following product has been tested by us with the listed standards and found in conformity with the council LVD directive 2014/35/EU. It is possible to use CE marking to demonstrate the conformity with this LVD Directive.

Applicant : SAFEWELL EQUIPMENT(ZHEJIANG)CO.,LTD

Address : NO.105 Dongxin Road, Yangmiao Industry  
Zone, Jiashan, Zhejiang

Manufacturer : SAFEWELL EQUIPMENT(ZHEJIANG)CO.,LTD

Address : NO.105 Dongxin Road, Yangmiao Industry  
Zone, Jiashan, Zhejiang

Trade Mark : N/A

EUT : rack and accessories

M/N : SM03, other models see test report "GENERAL PRODUCT  
INFORMATION"

Technical Data : 220-240V~, 50/60Hz, 0.08A, IPX0, Class I

Test Standards : EN 62368-1:2014+A11:2017

Version : Ver.1.0



  
.....  
(Manager)



December 02, 2020

The certificate is based on a single evaluation of one sample of above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab. logo.



**LKSCA30B**

**link**

**ARMADIO ALLOGGIAMENTO 30 TABLET CON RUOTE  
MULTIPRESE INCLUSE VENTOLE DI RAFFREDDAMENTO  
PORTA IN ACCIAIO TRAFORATA COLORE GRIGIO NERO**



Raccolta differenziata plastica



Raccolta differenziata carta e cartone

Lotto n.



8 028400 076892

Consulta le disposizioni del tuo comune

Made in China. Importato da Link Creative - via Serenari, 35 - Castel Maggiore (BO) - Italy

CERTIFICATION



# 凯新认证（北京）有限公司 质量管理体系认证证书

注册号：06921Q15813R0M

兹证明

## 盛威安全设备（浙江）有限公司

统一社会信用代码：9133042179649616XE

地址：嘉善县天凝镇东信路 105 号

管理体系符合

**GB/T19001-2016 / ISO9001:2015 标准**

认证覆盖范围

通讯机柜、墙柜的设计、生产和销售（需资质许可除外）

发证日期：2021 年 04 月 06 日

证书有效期至：2024 年 04 月 05 日

注：获证组织必须定期接受监督审核并经审核合格此证书方继续有效，自 2022-01-07 日起，本证书需与《保持认证资格通知书》一并使用。



KCB Certification



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国家规定的有效期内，请用户可登录国家认证认可监督管理委员会网站。

Users can login [www.cnca.gov.cn](http://www.cnca.gov.cn) or [www.kcbchina.com](http://www.kcbchina.com) to check the certificate status, or confirm by means of [kcb@kcb-china.com](mailto:kcb@kcb-china.com) to check the certificate status, to confirm by means of  
[kcb@kcbchina.com](mailto:kcb@kcbchina.com). This certificate should be used under national specified administrative qualification license and within the expiration date.

中国北京市经济技术开发区中街 42 号 5 层 505 室 (100021) 服务热线: 400 614 1189 电话: +8610-6915 5012/1113/15 传真: +8610-6914 1880  
Address: Suite 505, Kaitang District, Xinhong Road 42, Dongcheng District, Beijing, 100021 China. Service hotline: 400 614 1189 Tel: +8610-6915 5012/1113/15 Fax: +8610-6914 1880



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*The Management system is in conformity with*

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**Scope: Design, production and sale of communication cabinet  
and wall cabinet (except for qualification license)**

Issue Date : 2021-04-06

Term of Validity : 2024-04-05

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# Certificate of Registration



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*(hereinafter called the Registered Company) the right to be listed in the Directory of Registered Companies in respect of the services listed below. These services shall be offered by the Registered Company at or from only the active business address given below in accordance with the environmental management system in compliance with ISO 14001:2015.*

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Signed for and on behalf of the Board

CHIEF EXECUTIVE

SCHEME MANAGER

Certificate Issue Date : 25th March 2020 - Certificate Renewal Before : 24th March 2021  
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**QA INTERNATIONAL**

QA International Certification Ltd  
Dudley Court  
Dudley Road  
Birmingham  
United Kingdom  
DL1 4GG

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Fax: +44 (0)121 409900  
[www.qa.co.uk](http://www.qa.co.uk)



The use of the 'accreditation Mark' logo and certification in respect of those standards certified by the accreditation body is subject to the conditions of the accreditation agreement.

## DICHIARAZIONE REACH

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14/04/2023

Emmegi Ricambi Spa  
Tomesani Fausto



## DICHIARAZIONE DI CONFORMITA'

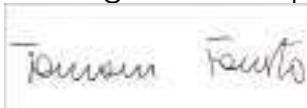
**DIRETTIVA 2011/65/UE DEL PARLAMENTO EUROPEO E DEL CONSIGLIO dell'8 giugno 2011 sulla restrizione dell'uso di determinate sostanze pericolose nelle apparecchiature elettriche ed elettroniche (R.o.H.S.)**

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(Bo), 14/05/2023  
Emmegi Ricambi Spa



# Smaltimento imballaggi:

Al fine di facilitare la gestione dello smaltimento degli imballaggi, riportiamo le indicazioni riguardo agli imballaggi che comunemente accompagnano i nostri prodotti e la relativa destinazione.

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Consultate le disposizioni del vostro comune.

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Schema colore dei cassonetti della raccolta differenziata:





Buongiorno.

In allegato forniamo la documentazione e le indicazioni per gli interventi che prevedano l'acquisto di apparecchiature elettriche ed elettroniche, secondo il principio DNSH correlati al codice NACE: 25.99: Fabbricazione di computer e prodotti di elettronica e ottica.

Il principio del "non arrecare un danno significativo" all'ambiente (anche noto come principio DNSH, cioè "Do No Significant Harm") nasce per coniugare crescita economica e tutela dell'ecosistema, garantendo che gli investimenti siano realizzati senza pregiudicare le risorse ambientali.

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Si parla di *tassonomia delle attività economiche sostenibili* per indicare una classificazione delle attività **sulla base del loro impatto su sei obiettivi ambientali**. In particolare, in base all'art. 17 del Regolamento Tassonomia, si considera che un'attività economica arrechi un danno significativo:

1. alla mitigazione dei cambiamenti climatici, se conduce a significative emissioni di gas a effetto serra;
2. all'adattamento ai cambiamenti climatici, se conduce a un peggioramento degli effetti negativi del clima attuale e del clima futuro previsto sull'attività stessa o sulle persone, sulla natura o sugli attivi;
3. all'uso sostenibile e alla protezione delle acque e delle risorse marine, se l'attività nuoce: al buono stato o al buon potenziale ecologico di corpi idrici, comprese le acque di superficie e sotterranee; al buono stato ecologico delle acque marine;
4. all'economia circolare, compresi la prevenzione e il riciclaggio dei rifiuti, se: - conduce a inefficienze significative nell'uso dei materiali o nell'uso diretto o indiretto di risorse naturali quali le fonti energetiche non rinnovabili, le materie prime, le risorse idriche e il suolo, in una o più fasi del ciclo di vita dei prodotti, anche in termini di durabilità, riparabilità, possibilità di miglioramento, riutilizzabilità o riciclabilità dei prodotti; - l'attività comporta un aumento significativo della produzione, dell'incenerimento o dello smaltimento dei rifiuti, ad eccezione dell'incenerimento di rifiuti pericolosi non riciclabili; - lo smaltimento a lungo termine dei rifiuti potrebbe causare un danno significativo e a lungo termine all'ambiente;
5. alla prevenzione e alla riduzione dell'inquinamento se comporta un aumento significativo delle emissioni di sostanze inquinanti nell'aria, nell'acqua o nel suolo rispetto alla situazione esistente prima del suo avvio;

6. alla protezione e al ripristino della biodiversità e degli ecosistemi se nuoce in misura significativa alla buona condizione e alla resilienza degli ecosistemi o nuoce allo stato di conservazione degli habitat e delle specie, compresi quelli di interesse per l'Unione.

L'acquisto di dispositivi elettronici deve essere quindi effettuato **tenendo in considerazione questi 6 punti**, garantendo lo sforzo di ridurre al minimo l'uso di energia e le emissioni di CO2 correlate, in modo da contribuire alla mitigazione dei cambiamenti climatici.

Inoltre, le soluzioni realizzative, i materiali ed i componenti delle apparecchiature possono comportare l'utilizzo di sostanze pericolose.

Il fine vita di tali apparecchiature comporta la produzione di grandi quantità di rifiuti pericolosi e non.

L'attività in questione non è compresa tra le attività facenti parte della Tassonomia delle attività eco-compatibili (Regolamento UE 2020/852). Pertanto, non vi è un contributo sostanziale, e a questi prodotti si applica quindi unicamente il regime del contributo minimo (Regime 2)

L'Investimento dovrà quindi "non arrecare danno significativo", rispettando i principi DNSH (Regime 2).

Il principio Do No Significant Harm applicato agli obiettivi ambientali relativo ai prodotti oggetto dell'analisi:

### **Mitigazione del cambiamento climatico**

Al fine di garantire il rispetto del principio DNSH connesso con la mitigazione dei cambiamenti climatici e la significativa riduzione di emissioni di gas a effetto serra, dovranno essere adottate tutte le strategie disponibili per l'acquisto di dispositivi elettronici in linea con l'obiettivo di contenere le emissioni.

Elementi di verifica:

Il prodotto non conduce a significative emissioni di gas a effetto serra.

Il prodotto è provvisto di etichetta e istruzioni per lo smaltimento adeguato.

### **Adattamento ai cambiamenti climatici**

Non pertinente. L'acquisto di dispositivi elettronici non comporta impatti significativi specifici sull'adattamento ai cambiamenti climatici.

### **Uso sostenibile e protezione delle acque e delle risorse marine**

Non pertinente. L'acquisto di PC, dispositivi elettronici non comporta impatti significativi sulla tutela delle risorse idriche.

### **Economia circolare**

Le apparecchiature elettroniche utilizzate per l'investimento sono stati prodotti in linea con gli standard più aggiornati in termini di materiale utilizzato, procedure per la gestione dei rifiuti e il riutilizzo dei materiali. La fase di progettazione del prodotto considera l'impatto ambientale durante il suo intero ciclo di vita facilitando il miglioramento delle prestazioni ambientali in modo economicamente efficace, anche in termini di efficienza delle risorse e dei materiali, e quindi

contribuisce ad un uso sostenibile delle risorse naturali.

Elementi di verifica:

- ISO 9001 e ISO 14001 del produttore.
- l'iscrizione alla piattaforma RAEE in qualità di distributore: RAEE: AETEL – BO – 000159/PATEL – BO - 000057

### **Prevenzione e riduzione dell'inquinamento**

Nella costruzione non sono utilizzati componenti, prodotti e materiali contenenti sostanze inquinanti.

Elementi di verifica:

Certificazione Reach

Certificazione RoHS

Certificazione CE

### **Protezione e ripristino della biodiversità e degli Ecosistemi**

Non pertinente.

## LKSCA40



**ARMADIO ALLOGGIAMENTO 40 TABLET CON  
RUOTE MULTIPRESE INCLUSE VENTOLE DI  
RAFFREDDAMENTO PORTA IN ACCIAIO  
TRAFORATA COLORE GRIGIO NERO**

Codice prodotto: **LKSCA40**

Codice EAN: **8028400076908**

Unità: **NR**

Marca: **LINK**

Peso: **82,000 Kg.**

Armadio con chiusura a chiave che permette la protezione e l'alimentazione di 40 notebook o tablet custoditi all'interno.

Ideale per scuole o uffici, dove si necessita di un posto sicuro in cui alloggiare dispositivi elettronici, dando la possibilità di ricaricarsi e impedendo il loro surriscaldamento.

Con due multiprese posteriori con 20 prese universali italiane/Schuko ciascuna, a cui collegare i cavi e gli adattatori dei dispositivi da ricaricare.

I dispositivi si posizionano in verticale sui ripiani, separati da divisori.

I cavi di alimentazione per i dispositivi si possono organizzare agganciandoli a delle alette sui ripiani.

Ci si possono alloggiare dispositivi di misura massima cm 28 x 37, altezza cm 2,3.

I separatori dei ripiani sono removibili, in questo modo si possono alloggiare anche notebook o altri dispositivi più larghi.

Con 4 ruote incluse di cui due bloccabili.

Con porte traforate con chiusura a chiave, permette la protezione dei dispositivi contenuti mentre si ricaricano.

Con due ripiani con 20 alloggiamenti per notebook o tablet ognuno.

Con maniglia per facilitare lo spostamento del carrello di ricarica.

L'armadio è in acciaio, colore bianco e bordi arrotondati in plastica neri, si adatta all'arredamento di tutti gli

## LKSCA40

ambienti, con porte traforate, assicura la protezione dei dispositivi interni, e ne permette l'aerazione grazie alla porta grigliata e alle quattro ventole di raffreddamento incluse (due per lato).

La porta anteriore e posteriore hanno la chiusura a chiave.

Cavo di alimentazione incluso con spina italiana 16A Lunghezza metri 2,5.

Durante gli spostamenti dell'armadio il cavo si può alloggiare nell'apposito vano.

Con alimentatore incluso AC200/110V con funzione di protezione contro sovraccarichi.

Misure con ruote (LxPxA): cm 75x60x102 Misure senza ruote (LxPxA): cm 75x60x86



Emmegi Ricambi S.p.a.

Sede: Via Marino Serenari, 35 – 40033 – Castelmaggiore (BO)



## Dichiarazione di conformità

Il sottoscritto Fausto Tomesani

In qualità di legale rappresentante della ditta Emmegi Ricambi S.p.a.

con sede in: Via Marino Serenari, 35 – 40033 – Castelmaggiore (BO)

Partita IVA: 04264830375

### Dichiara

che il prodotto: Armadio Rack

Modello e codice: **LKSCA40**

È stato costruito rispettando le seguenti direttive e norme:

- Direttiva 2014/35/UE nota come "Direttiva bassa tensione"
- Direttiva 2014/30/UE nota come "Direttiva compatibilità elettromagnetica"
- Direttiva 2011/65/CE nota come "RoHS"
- Direttiva delegata (UE) 2015/863 recante modifica dell'allegato II della direttiva 2011/65/UE
- Direttiva 2012/19/UE nota come "RAEE"
- Direttiva 2001/95/CE nota "Sicurezza generale dei prodotti"
- Norma IEC 61882:2016 metodo di analisi dei rischi secondo il metodo HAZOP
- [EN 55032:2015](#), [EN 55024:2010 + A1:2015](#), [EN 61000-3-2:2014](#), [EN 61000-3-3:2013](#)

Ed è quindi conforme alle direttive e normative vigenti.

La presente dichiarazione di conformità è rilasciata sotto la responsabilità esclusiva del fabbricante.

Data: 11/04/2023

Luogo: Castel Maggiore

Firma:



**MarcaturaCE.net**

CEC.Group S.r.l. - Via Lauro, 95 – 35010 - Cadoneghe (PD) – Italy

Consulenti e Periti per: Guardia di Finanza, Tributaria, Autorità Doganali,  
Carabinieri,  
Polizia di Stato, Unioncamere, Tribunali.

La consulenza sull'impostazione del modello fascicolo tecnico è stata fornita dalla ditta CEC.group S.r.l.

CERTIFICATION



# 凯新认证（北京）有限公司 质量管理体系认证证书

注册号：06921Q15813R0M

兹证明

## 盛威安全设备（浙江）有限公司

统一社会信用代码：9133042179649616XE

地址：嘉善县天凝镇东信路 105 号

管理体系符合

**GB/T19001-2016 / ISO9001:2015 标准**

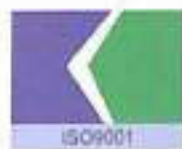
认证覆盖范围

通讯机柜、墙柜的设计、生产和销售（需资质许可除外）

发证日期：2021 年 04 月 06 日

证书有效期至：2024 年 04 月 05 日

注：获证组织必须定期接受监督审核并经审核合格此证书方继续有效，自 2022-01-07 日起，本证书需与《保持认证资格通知书》一并使用。



中国认可  
国际互认  
管理体系  
MANAGEMENT SYSTEM  
CNAS C069-M

本证书可在国家认证认可监督管理委员会网站 ([www.cnca.gov.cn](http://www.cnca.gov.cn))、上海凯新认证有限公司网站 ([www.kcbchina.com](http://www.kcbchina.com)) 进行查询，也可通过电子邮件 [kcb@kcb-china.com](mailto:kcb@kcb-china.com) 进行确认。本证书在  
国家规定的有效期内，请客户可登录国家认证认可监督管理委员会网站。

Users can login [www.cnca.gov.cn](http://www.cnca.gov.cn) or [www.kcbchina.com](http://www.kcbchina.com) to check the certificate status, or confirm by means of [kcb@kcb-china.com](mailto:kcb@kcb-china.com) to check the certificate status, to confirm by means of  
[kcb@kcbchina.com](mailto:kcb@kcbchina.com). This certificate should be used under national specified administrative qualification license scope and within the expiration date.

中国北京市通州区运河商务区（新华大厦）3层309室 100027 | 服务热线：400 814 1188 | 电话：+8610-6515 5012/1113/15 | 传真：+8610-6514 1880  
Address: Suite 309, Kuehng Datsing, Xinhua New Street #2, Dongsing District, Beijing, 100027 China. Service hotline: 400 814 1188. Tel: +8610-6515 5012/1113/15. Fax: +8610-6514 1880





Kaixin Certification (Beijing) Co.,Ltd.  
**Certificate of Registration**

Registration No. : 06921Q15813R0M

*This is to certify that*

**Zhejiang Safewell Precision Sheet-metal MFG, Ltd**

Unified Social Credit Code:9133042179649616XE

Address: 105 Dongxin Road, Yanning Town, Jiashan City, China.

*The Management system is in conformity with*

**GB/T19001-2016 / ISO9001:2015 standard**

**Scope: Design, production and sale of communication cabinet  
and wall cabinet (except for qualification license)**

Issue Date : 2021-04-06

Term of Validity : 2024-04-05

**NOTE:**The certified organization must accept the surveillance audit duty, and the audit shall be approved as effective before approving that this certificate can maintain as valid. On and by 2024-04-05, this certificate shall be used together with notice of maintaining certification and registration.



KCB Certification



中国认可  
国际互认  
管理体系  
MANAGEMENT SYSTEM  
CNAS C069-M



# Certificate of Registration



The Governing Board of  
Q.A. International Certification Limited  
hereby grants to:

## SAFEWELL EQUIPMENT (ZHE JIANG) CO., LTD.

Unified Social Credit Code: 9133042179649616XE  
Registration No.: QAIC / CN / 200092

*(hereinafter called the Registered Company) the right to be listed in the Directory of Registered Companies in respect of the services listed below. These services shall be offered by the Registered Company at or from only the active business address given below in accordance with the environmental management system in compliance with ISO 14001:2015.*

Business License Address:

**No.105, Dongxin Road, Tianning Town, Jiashan County, Jiaxing City,  
Zhejiang Province, P.R. China**

Active Business Address to which this Certificate is registered:

**No.105, Dongxin Road, Tianning Town, Jiashan County, Jiaxing City,  
Zhejiang Province, P.R. China**

Approved Scope to which this Certificate refers:

**The Manufacture of Communication Cabinets, Wall Cabinets  
and Management of Related Environmental Aspects.**

*(Please note that the above scope represents the certified activity of the named organization and as such, the organization may undertake additional activities that are not covered under this certification).*

Signed for and on behalf of the Board

CHIEF EXECUTIVE

SCHEME MANAGER

Certificate Issue Date : 25th March 2020 - Certificate Renewal Before : 24th March 2021  
Date of Initial Registration : 25th March 2020 - Re-Certification Before : 24th March 2021

This Certificate of Registration is granted subject to the Regulations approved by the Board.  
The information of this certificate can be searched on the website of CNCA ([www.cnca.gov.cn](http://www.cnca.gov.cn)).  
The certified organization should apply for regular audit to maintain its qualification.

**QA INTERNATIONAL**

QA International Certification Ltd  
Dudley Court  
Dudley Road  
Birmingham  
United Kingdom  
DL1 4GG

Tel: +44 (0)121 364212  
Fax: +44 (0)121 409900  
[www.qa.co.uk](http://www.qa.co.uk)



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14/04/2023

Emmegi Ricambi Spa  
Tomesani Fausto



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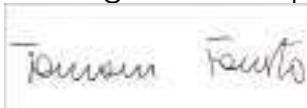
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2. all'adattamento ai cambiamenti climatici, se conduce a un peggioramento degli effetti negativi del clima attuale e del clima futuro previsto sull'attività stessa o sulle persone, sulla natura o sugli attivi;
3. all'uso sostenibile e alla protezione delle acque e delle risorse marine, se l'attività nuoce: al buono stato o al buon potenziale ecologico di corpi idrici, comprese le acque di superficie e sotterranee; al buono stato ecologico delle acque marine;
4. all'economia circolare, compresi la prevenzione e il riciclaggio dei rifiuti, se: - conduce a inefficienze significative nell'uso dei materiali o nell'uso diretto o indiretto di risorse naturali quali le fonti energetiche non rinnovabili, le materie prime, le risorse idriche e il suolo, in una o più fasi del ciclo di vita dei prodotti, anche in termini di durabilità, riparabilità, possibilità di miglioramento, riutilizzabilità o riciclabilità dei prodotti; - l'attività comporta un aumento significativo della produzione, dell'incenerimento o dello smaltimento dei rifiuti, ad eccezione dell'incenerimento di rifiuti pericolosi non riciclabili; - lo smaltimento a lungo termine dei rifiuti potrebbe causare un danno significativo e a lungo termine all'ambiente;
5. alla prevenzione e alla riduzione dell'inquinamento se comporta un aumento significativo delle emissioni di sostanze inquinanti nell'aria, nell'acqua o nel suolo rispetto alla situazione esistente prima del suo avvio;

6. alla protezione e al ripristino della biodiversità e degli ecosistemi se nuoce in misura significativa alla buona condizione e alla resilienza degli ecosistemi o nuoce allo stato di conservazione degli habitat e delle specie, compresi quelli di interesse per l'Unione.

L'acquisto di dispositivi elettronici deve essere quindi effettuato **tenendo in considerazione questi 6 punti**, garantendo lo sforzo di ridurre al minimo l'uso di energia e le emissioni di CO2 correlate, in modo da contribuire alla mitigazione dei cambiamenti climatici.

Inoltre, le soluzioni realizzative, i materiali ed i componenti delle apparecchiature possono comportare l'utilizzo di sostanze pericolose.

Il fine vita di tali apparecchiature comporta la produzione di grandi quantità di rifiuti pericolosi e non.

L'attività in questione non è compresa tra le attività facenti parte della Tassonomia delle attività eco-compatibili (Regolamento UE 2020/852). Pertanto, non vi è un contributo sostanziale, e a questi prodotti si applica quindi unicamente il regime del contributo minimo (Regime 2)

L'Investimento dovrà quindi "non arrecare danno significativo", rispettando i principi DNSH (Regime 2).

Il principio Do No Significant Harm applicato agli obiettivi ambientali relativo ai prodotti oggetto dell'analisi:

### **Mitigazione del cambiamento climatico**

Al fine di garantire il rispetto del principio DNSH connesso con la mitigazione dei cambiamenti climatici e la significativa riduzione di emissioni di gas a effetto serra, dovranno essere adottate tutte le strategie disponibili per l'acquisto di dispositivi elettronici in linea con l'obiettivo di contenere le emissioni.

Elementi di verifica:

Il prodotto non conduce a significative emissioni di gas a effetto serra.

Il prodotto è provvisto di etichetta e istruzioni per lo smaltimento adeguato.

### **Adattamento ai cambiamenti climatici**

Non pertinente. L'acquisto di dispositivi elettronici non comporta impatti significativi specifici sull'adattamento ai cambiamenti climatici.

### **Uso sostenibile e protezione delle acque e delle risorse marine**

Non pertinente. L'acquisto di PC, dispositivi elettronici non comporta impatti significativi sulla tutela delle risorse idriche.

### **Economia circolare**

Le apparecchiature elettroniche utilizzate per l'investimento sono stati prodotti in linea con gli standard più aggiornati in termini di materiale utilizzato, procedure per la gestione dei rifiuti e il riutilizzo dei materiali. La fase di progettazione del prodotto considera l'impatto ambientale durante il suo intero ciclo di vita facilitando il miglioramento delle prestazioni ambientali in modo economicamente efficace, anche in termini di efficienza delle risorse e dei materiali, e quindi



contribuisce ad un uso sostenibile delle risorse naturali.

Elementi di verifica:

- ISO 9001 e ISO 14001 del produttore.
- l'iscrizione alla piattaforma RAEE in qualità di distributore: RAEE: AETEL – BO – 000159/PATEL – BO - 000057

### **Prevenzione e riduzione dell'inquinamento**

Nella costruzione non sono utilizzati componenti, prodotti e materiali contenenti sostanze inquinanti.

Elementi di verifica:

Certificazione Reach

Certificazione RoHS

Certificazione CE

### **Protezione e ripristino della biodiversità e degli Ecosistemi**

Non pertinente.

# Carrello elettronico



Supporti e accessori per Monitor

## Tilt Stand

CARRELLO ELETTRICO PER  
TOUCHSCREEN



Viale Gianluigi Bonelli, 40, 00127 Roma RM  
T. +39 06 98383431 - [info@waceboeurope.com](mailto:info@waceboeurope.com)  
P. IVA 12404241007



Supporti e accessori per monitor

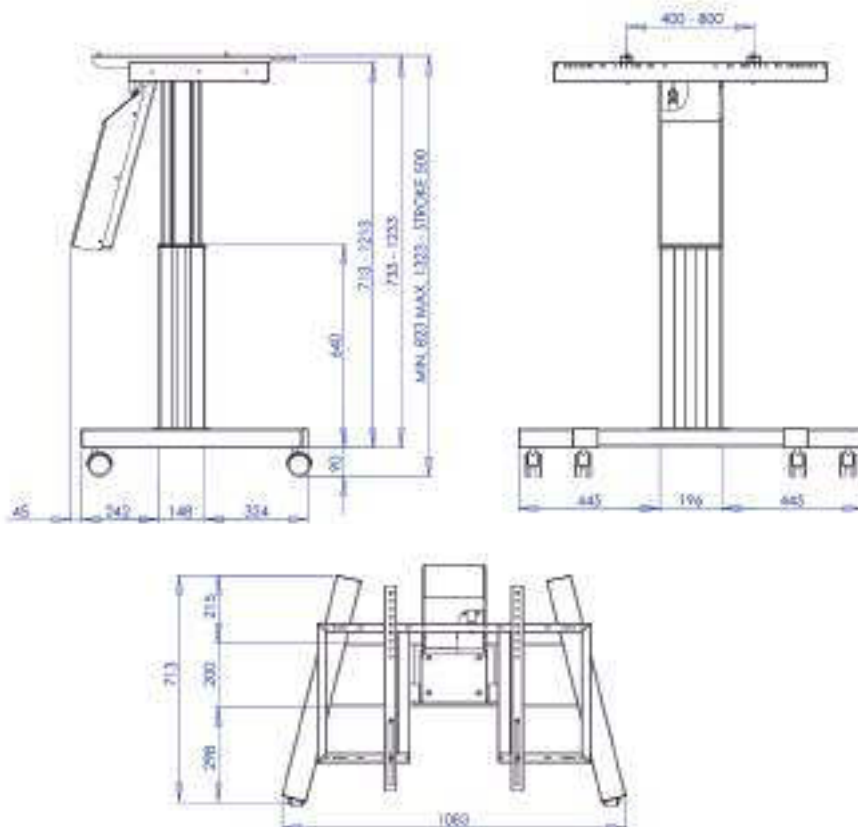
**Tilt stand** cod. DBL07184S

## ACCESSORI E SUPPORTI CHE FACILITANO LA ROTAZIONE E LO SPOSTAMENTO DEI DISPOSITIVI DI APPRENDIMENTO COME LIM & MONITOR



- Carrello elettrico per monitor interattivo regolabile in 2 posizioni: verticale per presentazioni ed orizzontale per tavolo interattivo
- Il carrello supporta monitor con dimensione massima di 90"
- Il movimento elettrico ha un'escursione di 50 cm fino al raggiungimento di un'altezza massima dal centro dello schermo di 129 cm
- Rotelle proiettanti con freno
- Base antiribaltamento dim. 110x71 cm
- Il sistema è dotato di un sistema di sicurezza il cui movimento di ascesa si blocca quando incontra un ostacolo.

Gli stand mobili e i carrelli elettrici sono gli accessori indispensabili per un utilizzo efficiente dei dispositivi tecnologici per l'apprendimento, con regolazione elettrica di altezza/inclinazione e molteplici applicazioni di utilizzo



Roma, luglio 2023

**OGGETTO: DNSH – Circolare MEF-RGS del 13.10.2022 n.33.  
Allegato 4.**

In riferimento a quanto in oggetto ed ai prodotti distribuiti dalla Scrivente Società, il sottoscritto Christian Fanizzi, nella qualità di Amministratore Unico della **Wacebo Europe Srl** con sede legale in Viale Gianluigi Bonelli n. 40 - 00127 Roma (RM) P.IVA 12404241007, con la presente

**DICHIARA**

- ✓ Di essere iscritto al Registro dei Produttori di Apparecchiature Elettriche ed Elettroniche (RAEE) n. IT17050000009876;
- ✓ Di essere in possesso della certificazione del sistema di gestione per la qualità UNI EN ISO 9001:2015 n. IQ-0314-03 emesso da Dasa-Rägister S.p.A.;
- ✓ Di essere in possesso della certificazione del sistema di gestione ambientale UNI EN ISO 14001:2015 n. GA-2017/0055 emesso da Aenor Internacional S.A.U. (IQNET Members);
- ✓ Di aver aderito al CONAI con codice consorziato 129 48274 (CONAI è un Consorzio privato senza fini di lucro che costituisce in Italia lo strumento attraverso il quale i produttori e gli utilizzatori di imballaggi garantiscono il raggiungimento degli obiettivi di riciclo e recupero dei rifiuti di imballaggio previsti dalla legge - Ref. EU Packaging and Packaging Waste Directive);
- ✓ Che i prodotti, laddove applicabile, possiedono etichetta EPA Energy Star,
- ✓ Che i prodotti, laddove applicabile, possiedono una marcatura di alloggiamenti e mascherine di plastica secondo gli standard ISO 11469 e ISO 1043;
- ✓ Che i prodotti, laddove applicabile, possiedono una certificazione di conformità alle direttive REACH (Regolamento CE n. 1907/2006), RoHS (Direttiva 2011/65/EU e ss.m.i.), compatibilità elettromagnetica (Direttiva 2014/30/UE e ss.m.i.);
- ✓ Che per i prodotti, laddove applicabile, sono state indicate le limitazioni delle caratteristiche di pericolo dei materiali che si prevede utilizzare (Art. 57, Regolamento CE 1907/2006, REACH);
- ✓ **Che i prodotti quindi, sono conformi e rispettano il principio DNSH (Do No Significant Harm).**

Wacebo Europe Srl  
Amministratore Unico  
Christian Fanizzi



**Wacebo Europe Srl**

Headquarter Viale Gianluigi Bonelli, 40 | 00127 Roma (RM) | ITALY  
Tel (+39) 06 9838 3431 | P.IVA/VAT no. IT12404241007 | Cap. Soc. 163.340,00 i.v.  
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ISO 9001:2008 | ISO 14001:2015 Certified Company

Roma, 17 maggio 2023

**DICHIARAZIONE DI CONFORMITA'**

*(Conformemente alla direttiva europea 2006/42/CE - allegato IIA)*

Noi, firmatari della presente, dichiariamo sotto la nostra esclusiva responsabilità che la macchina qui descritta è progettata, costruita ed immessa sul mercato in conformità ai requisiti essenziali di sicurezza e salute della direttiva macchine 2006/42/CE.

Tale dichiarazione perde la sua validità se il prodotto viene modificato senza nostra autorizzazione scritta.

**COSTRUTTORE** Wacebo Europe Srl | Viale G. Bonelli, 40 | 00127 Roma (RM)  
**MODELLO** TILT-STAND ELECTRIC TROLLEY DBL07184S  
**DESCRIZIONE** Carrello motorizzato sollevabile ed inclinabile per schermi

**ALTRE DIRETTIVE EUROPEE**

- ✓ compatibilità elettromagnetica 2004/108/CE
- ✓ bassa tensione 2006/95/CE
- ✓ RoHS - restrizione sull'uso di sostanze pericolose 2011/65/CE
- ✓ R&TTE - apparecchiature radio e terminali di telecomunicazione 1999/5/CE

**NORME TECNICHE EUROPEE**

- ✓ EN 14434:2010
- ✓ EN 13849-1:2008
- ✓ EN 60335-1:2012 - EN 62311:2008
- ✓ EN 61000-6-1:2007
- ✓ EN 61000-6-3:2007
- ✓ EN 302220-2:2007
- ✓ EN 55014-1:2007+A1(2009)+A2(2011)
- ✓ EN 55022:2011- classB
- ✓ EN 55581:2012 (RoHS)

**NORME E SPECIFICHE NAZIONALI**

- ✓ C/US Autorizzazione alla marcatura ETL

DICHIARAZIONE FIRMATA DA Christian Fanizzi  
POSIZIONE Rappresentante legale

**WACEBO EUROPE SRL**

Wacebo Europe Srl  
Amministratore Unico  
Christian Fanizzi



**Wacebo Europe Srl**

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ISO 9001:2008 | ISO 14001:2015 Certified Company



# Chromebook



# Acer Chromebook 314

## ACER CHROMEBOOK 314 C933-C9P2

(PN: NX.ATJET.007 - EAN: 4711121339080)



- Intel Celeron N4020
- Chrome OS
- 4 DDR4
- e-MMC 64
- Intel UHD Graphics 600



intel.

**Acer Chromebook 314**

Con un display da 14" e una cornice sottile di 7,3 mm, Acer Chromebook 314 consente di lavorare anche in condizioni di luce intensa e di incrementare così la produttività. La batteria di lunga durata, la potente CPU Intel e la veloce connessione Wi-Fi 5 (802.11ac) ti portano online in un istante.

**Il futuro dell'elaborazione**

Basso consumo energetico e velocità del software sono possibili grazie al processore Intel di ultima generazione. Queste prestazioni consentono di lavorare a progetti grafici complessi in modo semplice e veloce.

**Mobilità senza confini**

La portabilità è la caratteristica chiave di questo Chromebook, più piccolo di un foglio A4 e pesante solo 1,5 kg. Sta comodamente in una borsa piccola ed è sempre pronto all'uso.

**Batteria carica per tutto il giorno**

Durata della batteria fino a 12.5 ore. Un'intera giornata di lavoro con un'unica carica. Grazie alla batteria a lunga durata non devi avere sempre con te l'alimentatore.

**La potenza del wireless**

Segnale wireless potente e continuo grazie alla connettività Intel Gigabit Wi-Fi e all'antenna wireless Wi-Fi 5 (802.11ac) con 2x2 MU-MIMO in posizione strategica. La tecnologia MU-MIMO (Multi-User Multiple-Input e Multiple-Output) è uno standard in grado di garantire alta velocità wireless e di gestire più dispositivi contemporaneamente.

**Ampia connettività**

Trasferisci dati, guarda video in streaming e ricarica la batteria velocemente tramite due porte USB Type-C. Il connettore reversibile USB 3.2 Type-C™ è più facile da collegare. Oltre alle due porte USB 3.2 Type-C, ci sono altre due porte USB 3.2 Gen 1.

**Mantieni alta la produttività**

Tempo di avvio rapido, facilità d'uso, sicurezza e durata della batteria sono alcuni dei vantaggi di Chrome OS. Avvio in 8 secondi per iniziare subito a lavorare; interfaccia semplificata per facilitare l'apprendimento; protezione integrata dal malware per bloccare i virus; batteria a lunga durata per lavorare tutto il giorno senza l'alimentatore.

**Garanzia**

**Mesi di garanzia del costruttore** 12

**Generale**

<b>Tipologia</b>	Notebook
<b>Funzione/Utilizzo</b>	Family
<b>Form Factor</b>	Mainstream
<b>Convertibile</b>	No
<b>Colore</b>	Nero
<b>Nome commerciale</b>	Acer Chromebook 314
<b>MIL-STD 810G Compliant</b>	G

### Sistema operativo

Famiglia sistema operativo	Chrome OS
Descrizione Sistema Operativo	Chrome OS

### Processore e chipset

Marca processore	Intel
Processore	Celeron
Sigla Processore	N4020
Cache di secondo livello (MB)	4
Velocità della clock (GHz)	1,1
Velocità clock turbo (GHz)	2,8
Marca chipset	Intel
Tipo di Chipset	Integrato

### Memoria

RAM installata (GB)	4
RAM massima supportata (GB)	4
Tipo di RAM	DDR4
Numero slot totali RAM	0
Numero slot liberi RAM	0
Frequenza RAM (Mhz)	2133
Specifica RAM	SDRAM 4 GB fixed on board

**Archiviazione**

<b>Tipo di Hard Disk</b>	e-MMC
<b>Capacità HDD/Memoria interna (GB)</b>	64
<b>Card Reader</b>	No
<b>Tipo unità ottica</b>	Non presente
<b>Partizione di ripristino</b>	Sì

**Display e grafica**

<b>Formato dello schermo</b>	16:9
<b>Tipo di display</b>	LCD
<b>Dimensioni display (")</b>	14
<b>Tecnologia del display</b>	IPS
<b>Risoluzione orizzontale (pixel)</b>	1920
<b>Risoluzione verticale (pixel)</b>	1080
<b>Touchscreen</b>	No
<b>Schermo antiriflesso</b>	Sì
<b>3D</b>	No
<b>HD</b>	Full HD
<b>Marca scheda grafica</b>	Intel
<b>Modello scheda grafica</b>	UHD Graphics 600

**Audio**

<b>Tipo di altoparlanti</b>	Two built-in stereo speakers
<b>Uscita cuffie</b>	1
<b>Uscita audio</b>	1

**Rete e comunicazione**

<b>Bluetooth</b>	Bluetooth 5.0
<b>Ethernet</b>	No
<b>WiFi</b>	Sì
<b>Tipo WiFi</b>	Intel Wireless-AC 9560,
<b>Protocollo WiFi</b>	802.11a/b/g/n/ac
<b>Modem</b>	No
<b>Modulo G (UMTS)</b>	No
<b>Slot SIM</b>	No

**Dispositivi incorporati**

<b>Infrarossi</b>	No
<b>Scheda TV</b>	No
<b>Sintonizzatore TV</b>	No
<b>Microfono</b>	Sì
<b>Webcam</b>	Sì
<b>Lettore impronte digitali</b>	No
<b>Altre caratteristiche fotocamera</b>	HD Camera with Microphone Indicatore luminoso Webcam
<b>Fotocamera posteriore</b>	No
<b>Flash incorporato</b>	No
<b>Autofocus incorporato</b>	No



**Interfacce/porte**

TPM 2.0	No
Numero di porte Seriale	0
Connettore RJ 45	0
Numero ingresso microfono	1
Numero ingresso audio	1
Numero di porte FireWire	0
Porta PS/2	0
Numero di Connettori RJ 11	0
Tipo HDMI	No
HDMI	No
DVI	No
Numero di porte USB 1.1/2.0	0
Numero di porte USB 3.2	2
Numero porte USB type "C"	2
Numero porte USB totali	4
Numero porte Thunderbolt	0
DisplayPort	NO
Numero porte Parallele	0
VGA	No

**Dispositivi input**

Telecomando	No
Tastiera retroilluminata	No

**Informazioni sulla batteria**

<b>Tipo di batteria</b>	48Wh Li-ion battery
<b>Capacità batteria (celle)</b>	3
<b>Autonomia (h)</b>	12,5

**Caratteristiche fisiche**

<b>Altezza netta del prodotto (cm)</b>	1,970
<b>Larghezza netta del prodotto (cm)</b>	32,540
<b>Profondità netta del prodotto (cm)</b>	23,2
<b>Peso netto del prodotto (kg)</b>	1,5
<b>Kensington Lock Slot</b>	Si

**Varie**

<b>Altro</b>	Certificazione ECO
<b>Tipo di Alimentatore</b>	45W
<b>Altre descrizioni strutturali</b>	Display 14" FHD IPS LED LCD 60Hz



**acer**



**COMPONENTI ORIGINALI**

Batterie, display, adattatori, accessori e molto altro

Parti di ricambio originali

Preventivi rapidi

Consegna rapida

Prezzi competitivi

Contattaci per un preventivo senza impegno!  
Telefono: 02 36000130      E-mail: [ordini.it@acer.com](mailto:ordini.it@acer.com)



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## **DECLARATION of REACH COMPLIANCE**

**Taipei, Taiwan – Mar. 22, 2023**

As part of our continuous efforts to safeguard a clean environment, we have been dedicating substantial resources to improving the environmental friendliness of our products. One of our recent foci has been placed upon the compliance of REACH, i.e. Regulation (EC) No. 1907/ 2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization, and Restriction of Chemicals.

Acer Inc. hereby declares that we are committed to taking all necessary steps to ensure our products comply with the REACH requirements. We will continue to review the Candidate List of Substances of Very High Concern (SVHC) and the Restriction List (Annex XVII) for additions and updates, and will act accordingly in compliance with REACH regulations.

A handwritten signature in black ink, appearing to read "RU Jan".

RU Jan  
Sr. Manager

As specified in the table below according to the Candidate list published by ECHA (European Chemical Agency).

#	Substance Name	CAS #	Published Date
1	Anthracene	120-12-7	2008-10-28
2	4,4'- Diaminodiphenylmethane	101-77-9	2008-10-28
3	Dibutyl phthalate	84-74-2	2008-10-28
4	Cobalt dichloride	7646-79-9	2008-10-28
5	Diarsenic pentaoxide	1303-28-2	2008-10-28
6	Diarsenic trioxide	1327-53-3	2008-10-28
7	Sodium dichromate, dihydrate	10588-01-9	2008-10-28
8	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	2008-10-28
9	Bis (2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	2008-10-28
10	Hexabromocyclododecane (HBCDD)	3194-55-6	2008-10-28
11	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	2008-10-28
12	Bis(tributyltin) oxide,hexabutyldistannoxane	56-35-9	2008-10-28
13	Lead hydrogen arsenate	7784-40-9	2008-10-28
14	Triethyl arsenate	15606-95-8	2008-10-28
15	Benzyl butyl phthalate	85-68-7	2008-10-28
16	Anthracene oil	90640-80-5	2010-1-13
17	Anthracene oil, anthracene paste	90640-81-6	2010-1-13
18	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	2010-1-13
19	Anthracene oil, anthracene paste,distr. lights	91995-17-4	2010-1-13
20	Anthracene oil, anthracene-low	90640-82-7	2010-1-13
21	Pitch, coal tar, high temp.	65996-93-2	2010-1-13
22	Acrylamide	79-06-1	2010-3-30
23	2,4-Dinitrotoluene	121-14-2	2010-1-13
24	Diisobutyl phthalate	84-69-5	2010-1-13
25	Lead chromate	7758-97-6	2010-1-13



#	Substance Name	CAS #	Published Date
26	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	2010-1-13
27	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	2010-1-13
28	Tris(2-chloroethyl)phosphate	115-96-8	2010-1-13
29	Trichloroethylene	79-01-6	2010-6-18
30	Boric acid	10043-35-3	2010-6-18
31	Disodium tetraborate, anhydrous	1330-43-4	2010-6-18
32	Tetraboron disodium heptaoxide, hydrate	12267-73-1	2010-6-18
33	Sodium chromate	7775-11-3	2010-6-18
34	Potassium chromate	7789-00-6	2010-6-18
35	Ammonium dichromate	7789-09-5	2010-6-18
36	Potassium dichromate	7778-50-9	2010-6-18
37	Cobalt(II) sulphate	10124-43-3	2010-12-15
38	Cobalt(II) dinitrate	10141-05-6	2010-12-15
39	Cobalt(II) carbonate	513-79-1	2010-12-15
40	Cobalt(II) diacetate	71-48-7	2010-12-15
41	2-Methoxyethanol	109-86-4	2010-12-15
42	2-Ethoxyethanol	110-80-5	2010-12-15
43	Chromium trioxide	1333-82-0	2010-12-15
44	Acids generated from chromium trioxide and chromium trioxide and their oligomers: Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid	7738-94-5 13530-68-2 -	2010-12-15
45	2-Ethoxyethyl acetate	111-15-9	2011-6-20
46	Strontium chromate	7789-06-2	2011-6-20
47	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	2011-6-20
48	Hydrazine	302-01-2 7803-57-8	2011-6-20

#	Substance Name	CAS #	Published Date
49	1-Methyl-2-pyrrolidone	872-50-4	2011-6-20
50	1,2,3-Trichloropropane	96-18-4	2011-6-20
51	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	2011-6-20
52	Dichromium tris(chromate)	24613-89-6	2011-12-19
53	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	2011-12-19
54	Pentazinc chromate octahydroxide	49663-84-5	2011-12-19
55	Aluminosilicate Refractory Ceramic Fibres (RCF)	-	2011-12-19
56	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)	-	2011-12-19
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	2011-12-19
58	Bis(2-methoxyethyl) phthalate	117-82-8	2011-12-19
59	2-Methoxyaniline; o-Anisidine	90-04-0	2011-12-19
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	2011-12-19
61	1,2-Dichloroethane	107-06-2	2011-12-19
62	Bis(2-methoxyethyl) ether	111-96-6	2011-12-19
63	Arsenic acid	7778-39-4	2011-12-19
64	Calcium arsenate	7778-44-1	2011-12-19
65	Trilead diarsenate	3687-31-8	2011-12-19
66	N,N-dimethylacetamide (DMAC)	127-19-5	2011-12-19
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	2011-12-19
68	Phenolphthalein	77-09-8	2011-12-19
69	Lead azide Lead diazide	13424-46-9	2011-12-19
70	Lead styphnate	15245-44-0	2011-12-19
71	Lead dipicrate	6477-64-1	2011-12-19

#	Substance Name	CAS #	Published Date
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	2012-6-18
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	2012-6-18
74	Diboron trioxide	1303-86-2	2012-6-18
75	Formamide	75-12-7	2012-6-18
76	Lead(II) bis(methanesulfonate)	17570-76-2	2012-6-18
77	TGIC(1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	2012-6-18
78	$\beta$ -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	2012-6-18
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	2012-6-18
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	2012-6-18
81	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	2012-6-18
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	2012-6-18
83	$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	2012-6-18
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	2012-6-18
85	Pyrochlore, antimony lead yellow	8012-00-08	2012-12-19
86	6-methoxy-m-toluidine (p-cresidine)	120-71-8	2012-12-19

#	Substance Name	CAS #	Published Date
87	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] <i>[The individual isomers [2],[3] and [3] (including their cis-and trans- stereo isomeric forms) and all possible combinations of isomers [1] are covered by this entry}]</i>	25550-51-0 19438-60-9 48122-14-1 57110-29-9	2012-12-19
88	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] <i>[The individual cis-[2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]</i>	85-42-7 13149-00-3 14166-21-3	2012-12-19
89	Dibutyltin dichloride (DBTC)	683-18-1	2012-12-19
90	Lead bis(tetrafluoroborate)	13814-96-5	2012-12-19
91	Lead dinitrate	10099-74-8	2012-12-19
92	Silicic acid, lead salt	11120-22-2	2012-12-19
93	4-Aminoazobenzen	60-09-3	2012-12-19
94	Lead titanium zirconium oxide	12626-81-2	2012-12-19
95	Lead monoxide (lead oxide)	1317-36-8	2012-12-19
96	o-Toluidine	95-53-4	2012-12-19
97	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	2012-12-19
98	Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped <i>[with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]</i>	68784-75-8	2012-12-19

#	Substance Name	CAS #	Published Date
99	Trilead bis(carbonate) dihydroxide	1319-46-6	2012-12-19
100	Furan	110-00-9	2012-12-19
101	N,N-dimethylformamide	68-12-2	2012-12-19
102	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [ <i>covering well-defined substances and UVCB substances, polymers and homologues</i> ]	-	2012-12-19
103	4-Nonylphenol, branched and linear [ <i>substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof</i> ]	-	2012-12-19
104	4,4'-methylenedi-o-toluidine	838-88-0	2012-12-19
105	Diethyl sulphate	64-67-5	2012-12-19
106	Dimethyl sulphate	77-78-1	2012-12-19
107	Lead oxide sulfate	12036-76-9	2012-12-19
108	Lead titanium trioxide	12060-00-3	2012-12-19
109	Acetic acid, lead salt, basic	51404-69-4	2012-12-19
110	[Phthaato(2-)]dioxotrilead	69011-06-9	2012-12-19
111	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	2012-12-19
112	N-methylacetamide	79-16-3	2012-12-19
113	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	2012-12-19
114	1,2-Diethoxyethane	629-14-1	2012-12-19
115	Tetralead trioxide sulphate	12202-17-4	2012-12-19
116	N-pentyl-isopentylphthalate	776297-69-9	2012-12-19
117	Dioxobis(stearato)trilead	12578-12-0	2012-12-19
118	Tetraethyllead	78-00-2	2012-12-19

#	Substance Name	CAS #	Published Date
119	Pentalead tetraoxide sulphate	12065-90-6	2012-12-19
120	Pentacosafuorotridecanoic acid	72629-94-8	2012-12-19
121	Tricosafuorododecanoic acid	307-55-1	2012-12-19
122	Henicosafuoroundecanoic acid	2058-94-8	2012-12-19
123	Heptacosafuorotetradecanoic acid	376-06-7	2012-12-19
124	1-bromopropane (n-propyl bromide)	106-94-5	2012-12-19
125	Methoxyacetic acid	625-45-6	2012-12-19
126	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	2012-12-19
127	Methyloxirane (Propylene oxide)	75-56-9	2012-12-19
128	Trilead dioxide phosphonate	12141-20-7	2012-12-19
129	o-aminoazotoluene	97-56-3	2012-12-19
130	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	2012-12-19
131	4,4'-oxydianiline and its salts	101-80-4	2012-12-19
132	Orange lead (lead tetroxide)	1314-41-6	2012-12-19
133	Biphenyl-4-ylamine	92-67-1	2012-12-19
134	Diisopentylphthalate	605-50-5	2012-12-19
135	Fatty acids, C16-18, lead salts	91031-62-8	2012-12-19
136	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	2012-12-19
137	Sulfurous acid, lead salt, dibasic	62229-08-7	2012-12-19
138	Lead cyanamidate	20837-86-9	2012-12-19
139	Cadmium	7440-43-9	2013-06-20
140	Cadmium oxide	1306-19-0	2013-06-20
141	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	2013-06-20
142	Pentadecafluorooctanoic acid (PFOA)	335-67-1	2013-06-20
143	Dipentyl phthalate (DPP)	131-18-0	2013-06-20

#	Substance Name	CAS #	Published Date
144	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-	2013-06-20
145	Cadmium sulphide	1306-23-6	2013-12-16
146	Dihexyl phthalate	84-75-3	2013-12-16
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	2013-12-16
148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	2013-12-16
149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	2013-12-16
150	Lead di(acetate)	301-04-2	2013-12-16
151	Trixylyl phosphate	25155-23-1	2013-12-16
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	2014/06/16
153	Sodium perborate; perboric acid, sodium salt	-	2014/06/16
154	Sodium peroxometaborate	7632-04-4	2014/06/16
155	Cadmium chloride	10108-64-2	2014/06/16
156	Cadmium fluoride	7790-79-6	2014-12-17
157	Cadmium sulphate	10124-36-4 31119-53-6	2014-12-17



#	Substance Name	CAS #	Published Date
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	2014-12-17
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	2014-12-17
160	2-ethylhexyl,10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	2014-12-17
161	reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	--	2014-12-17
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1	2015/06/15
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	--	2015/06/15
164	1,3-propanesultone	1120-71-4	2015/12/17
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	2015/12/17
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	2015/12/17
167	Nitrobenzene	98-95-3	2015/12/17
168	Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptafluorononanoic acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	2015/12/17

#	Substance Name	CAS #	Published Date
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	2016/06/20
170	4,4'-isopropylidenediphenol	80-05-7	2017/01/12
171	4-Heptylphenol, branched and linear substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB-and well-defined substances which include any of the individual isomers or a combination thereof	--	2017/01/12
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts Ammonium nonadecafluorodecanoate Decanoic acid, nonadecafluoro-, sodium salt	335-76-2 3108-42-7 3830-45-3	2017/01/12
173	p-(1,1-dimethylpropyl)phenol = 4-tert-pentylphenol (PTAP)	80-46-6	2017/01/12
174	Perfluorohexane-1-sulphonic acid and its salts	--	2017/07/07
175	Benz[a]anthracene	56-55-3	2018/01/15
176	Cadmium carbonate	513-78-0	2018/01/15
177	Cadmium hydroxide	21041-95-2	2018/01/15
178	Cadmium nitrate	10325-94-7	2018/01/15
179	Chrysene	218-01-9	2018/01/15
180	Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof)	-	2018/01/15
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	2018/01/15
182	Octamethylcyclotetrasiloxane (D4)	556-67-2	2018/06/07

#	Substance Name	CAS #	Published Date
183	Decamethylcyclopentasiloxane (D5)	541-02-6	2018/06/07
184	Dodecamethylcyclohexasiloxane (D6)	541-02-6	2018/06/07
185	Lead	7439-92-1	2018/06/07
186	Disodium octaborate	12008-41-2	2018/06/07
187	Benzo[ghi]perylene	191-24-2	2018/06/07
188	Terphenyl hydrogenated	61788-32-7	2018/06/07
189	Ethylenediamine (EDA)	107-15-3	2018/06/07
190	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride; TMA)	552-30-7	2018/06/07
191	Dicyclohexyl phthalate (DCHP)	84-61-7	2018/06/07
192	1,7,7-trimethyl-3-(phenylmethylene) bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	239-139-9	2019/1/15
193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	2019/1/15
194	Benzo[k]fluoranthene	205-916-6	2019/1/15
195	Fluoranthene	205-912-4	2019/1/15
196	Phenanthrene	201-581-5	2019/1/15
197	Pyrene	204-927-3	2019/1/15
198	2-methoxyethyl acetate	110-49-6	2019/07/16
199	Tris (4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	2019/07/16
200	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	2019/07/16
201	4-tert-butylphenol	98-54-4	2019/07/16
202	Diisohexyl phthalate	71850-09-4	2020/1/16
203	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	2020/1/16

#	Substance Name	CAS #	Published Date
204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	2020/1/16
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	2020/1/16
206	1-vinylimidazole	1072-63-5	2020/6/25
207	2-methylimidazole	693-98-1	2020/6/25
208	butyl 4-hydroxybenzoate	94-26-8	2020/6/25
209	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	2020/6/26
210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	2021/1/19
211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety dioctyl tin dilaurate; stannane, dioctyl-, bis(coco acyloxy) derivs. Stannane, dioctyl-, bis(coco acyloxy) derivs. Diocetyl tin dilaurate	-; -; 91648-39-4; 3648-18-8	2021/1/19
212	1,4-dioxane	123-91-1	2021/7/8
213	(1) 2,2-bis(bromomethyl)propane 1,3-diol (BMP); (2) 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); (3) 2,3-dibromo-1-propanol (2,3-DBPA)	(1) 3296-90-0; (2) 36483-57-5/ 1522-92-5; (3) 96-13-9	2021/7/8
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers: (2R)-3-(4-tert-butylphenyl)-2-methylpropanal; 2-(4-tert-butylbenzyl)propionaldehyde; (2S)-3-(4-tert-butylphenyl)-2-methylpropanal	75166-31-3; 80-54-6; 75166-30-2	2021/7/8

#	Substance Name	CAS #	Published Date
215	4,4'-(1-methylpropylidene)bisphenol	77-40-7	2021/7/8
216	glutaral	111-30-8	2021/7/8
217	Medium-chain chlorinated paraffins (MCCP) UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17	85535-85-9; 198840-65-2; 1372804-76-6; -	2021/7/8
218	orthoboric acid, sodium salt; boric acid (H3BO3), sodium salt, hydrate; Boric acid (H3BO3), disodium salt; Trisodium orthoborate; Boric acid, sodium salt; Orthoboric acid, sodium salt; Boric acid (H3BO3), sodium salt (1:1)	25747-83-5; 22454-04-2; 14312-40-4; 1333-73-9; 13840-56-7; 14890-53-0	2021/7/8
219	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP): Phenol, 4-dodecyl, branched ; 4-isododecylphenol ; Phenol, 4-isododecyl- ; Phenol, dodecyl-, branched ; Phenol, (tetrapropenyl) derivatives ; Phenol, tetrapropylene-	210555-94-5; 27459-10-5; 27147-75-7; 121158-58-5; 74499-35-7; 57427-55-1	2021/7/8
220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	1782069-81-1; 95342-41-9; 852541-25-4; 36861-47-9; 741687-98-9; 852541-30-1; 852541-21-0;	2022/1/17

#	Substance Name	CAS #	Published Date
221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	2022/1/17
222	S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2- ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	2022/1/17
223	tris(2-methoxyethoxy)vinylsilane	1067-53-4	2022/1/17
224	N-(hydroxymethyl)acrylamide	924-42-5	2022/6/10
225	1,1'-[ethane-1,2-diylbisoxo]bis[2,4,6-tribromobenzene]	37853-59-1	2023/1/17
226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	2023/1/17
227	4,4'-sulphonyldiphenol	80-09-1	2023/1/17
228	Barium diboron tetraoxide	13701-59-2	2023/1/17
229	<b>bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof:</b> Bis(2-ethylhexyl) tetrabromophthalate	26040-51-7	2023/1/17
230	Isobutyl 4-hydroxybenzoate	4247-02-3	2023/1/17
231	Melamine	108-78-1	2023/1/17
232	Perfluoroheptanoic acid and its salts: Sodium perfluoroheptanoate; Perfluoroheptanoic acid; potassium perfluoroheptanoate; Ammonium perfluoroheptanoate	20109-59-5; 375-85-9; 21049-36-5; 6130-43-4	2023/1/17
233	reaction mass of 2,2,3,3,5,5,6,6- octafluoro-4-(1,1,1,2,3,3,3- heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4- (heptafluoropropyl)morpholine	-	2023/1/17

Erion Energy



## **ATTESTATO DI ADESIONE 2023**

*per la gestione responsabile e sostenibile*

*dei Rifiuti di Pile e Accumulatori*

**ACER ITALY SRL**  
**CF. 07951950158**

è iscritto per l'anno 2023 a **Erion Energy**  
per la corretta gestione dei Rifiuti di Pile e Accumulatori (RPA),  
adempiendo così agli obblighi del **Decreto Legislativo 188/08**.

**Erion Energy**, Sistema Collettivo tra i più autorevoli e  
riconosciuti a livello nazionale ed europeo, garantisce per **ACER ITALY SRL** che tali rifiuti  
siano gestiti e riciclati in maniera corretta, tracciata  
e ambientalmente responsabile, nel rispetto della normativa vigente  
e seguendo alti standard europei di qualità.

Milano, 24/03/2023

*Laura Castelli*  
*Direttore Generale*  
*Erion Energy*

*Laura Castelli*



Erion Energy



## CERTIFICATE OF REGISTRATION 2023

*for responsible and sustainable management  
of Waste Batteries and Accumulators*

**ACER ITALY SRL**  
**TC. 07951950158**

is registered for the year 2023 to **Erion Energy**  
for a proper management of Waste Batteries and Accumulators,  
thus fulfilling the obligations of the Italian **Legislative Decree 188/08**.

**Erion Energy**, one of the most authoritative collective schemes at national and European level, guarantees for **ACER ITALY SRL** that such waste is properly managed and recycled, in a traced and environmentally responsible way, in compliance with the current legislation and following the high European quality standards.

Milano, 24/03/2023

*Laura Castelli*  
*Direttore Generale*  
*Erion Energy*

Erion Weee



## **ATTESTATO DI ADESIONE 2023**

*per la gestione responsabile e sostenibile dei RAEE*

**ACER ITALY SRL**  
**CF. 07951950158**

per l'anno 2023 è Socio di **Erion WEEE**  
per la gestione e lo smaltimento dei  
Rifiuti da Apparecchiature Elettriche ed Elettroniche (RAEE),  
adempiendo così agli obblighi del **Decreto Legislativo 49/2014**.

**Erion WEEE**, Sistema Collettivo tra i più autorevoli e riconosciuti a livello nazionale ed europeo, garantisce per **ACER ITALY SRL** che tali rifiuti siano gestiti e riciclati in maniera corretta, tracciata e ambientalmente responsabile, nel rispetto della normativa vigente e seguendo alti standard europei di qualità.

Milano, 24/03/2023

*Giorgio Arienti*  
*Direttore Generale*  
*Erion WEEE*

A handwritten signature in dark ink, appearing to read 'Giorgio Arienti', written over a light blue rectangular background.

Erion Weee



## CERTIFICATE OF PARTECIPATION 2023

*for responsible and sustainable management  
of Waste Electrical and Electronical Equipment*

**ACER ITALY SRL  
TC. 07951950158**

for the year 2023 is part of **Erion WEEE**  
for a proper management of Waste Electrical and Electronical Equipment,  
thus fulfilling the obligations of the Italian **Legislative Decree 49/2014**.

**Erion WEEE**, one of the most authoritative collective schemes at national and European level, guarantees for **ACER ITALY SRL** that such waste is properly managed and recycled, in a traced and environmentally responsible way, in compliance with the current legislation and following the high European quality standards.

Milano, 24/03/2023

*Giorgio Arienti  
Direttore Generale  
Erion WEEE*

## EC/EU DECLARATION OF CONFORMITY

We,  
**Acer Incorporated**  
 8F, 88, Sec. 1, Xintai 5th Rd., Xizhi,  
 New Taipei City 221, Taiwan  
 Contact Person: Mr. RU Jan, e-mail: ru.jan@acer.com

**Acer Italy s.r.l.**  
 Viale delle Industrie 1/A, 20020 Arese (MI), Italy  
 Tel: +39-02-939-921 Fax: +39-02-9399-2913

Product:	Notebook Computer		
Trade Name:	acer		
Model Number:	N19C1		
SKU Number:	A315-42*****	A315-54*****	
	A315-56*****	EX215-51*****	
	EX215-52*****		
	(* is "0-9", "a-z", "A-Z", "-", or blank)		

We, Acer Incorporated, hereby declare under our sole responsibility that the product described above is in conformity with the relevant Union harmonization legislation: Directive 2014/53/EU on Radio Equipment, RoHS Directive 2011/65/EU and ErP Directive 2009/125/EC. The following harmonized standards and/or other relevant standards have been applied:

Electromagnetic compatibility (Directive 2014/30/EU)		
EN 55032:2015+AC:2016-07	EN 55024: 2010+A1:2015	EN 301 489-1 V2.1.1
EN 301 489-17 V3.1.1	EN 61000-3-2:2014	EN 61000-3-3:2013
Radio frequency spectrum usage (Directive 2014/53/EU)		
EN 300 328 V2.1.1	EN 301 893 V2.1.1	
Healthy and Safety (Directive 2014/35/EU)		
EN 60950-1:2006/A11:2009/A1:2010/A12:2011/A2:2013	EN 50566:2013 or EN62311:2008	
RoHS (Directive 2011/65/EU)		
EN 50581:2012		
ErP (Directive 2009/125/EC)		
(EU) No. 2019/1782; EN 50563:2011 (EC) No. 1275/2008; EN 50564:2011		

Radio Equipment Model: 9462NGW,NFA435,

Operation frequency and radio-frequency power are listed as below:

[Bluetooth] 2402-2480MHz < 10 dBm, [WLAN] 2412-2462MHz < 20dBm, 5180-5320MHz, 5500-5700MHz < 23dBm

Year to begin affixing CE marking:2020

  
 RU Jan, Sr. Manager 2020-04-14

Note: Open the Start Menu and search for 'Acer Documents' for help with setting up a network connection, using the touchpad, and other information which is important for your health and safety.



## ACER INCORPORATED

8F., NO.88, SEC.1, XINTAI 5TH RD., XIZHI, NEW TAIPEI CITY 221, TAIWAN

This is a multi-site certificate, additional site(s) are listed on the next page(s)

*Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below*

### ISO 9001:2015

*Scope of certification*

1. IT PRODUCTS BUSINESS, DIGITAL DISPLAY BUSINESS, SERVER PRODUCTS BUSINESS: DESIGN, MANUFACTURING, AND SUPPLY CHAIN MANAGEMENT, SALE, MARKETING AND SERVICE OF NOTEBOOKS, DESKTOPS, ALL-IN-ONE PCS, TABLET PCS, COMPUTER PERIPHERAL PRODUCTS, DISPLAYS, PROJECTORS, WORKSTATIONS, THIN CLIENTS, STORAGE SYSTEMS, AND SERVERS UNDER MULTIPLE BRANDS: ACER®, GATEWAY®, PACKARD BELL®, AND ALTOS®.
2. CUSTOMER SERVICE, PRODUCT REPAIR, REPAIR PART SUPPORT, AND IT OUTSOURCING MANAGEMENT OF IT PRODUCTS, DIGITAL DISPLAY, AND SERVER PRODUCTS.
3. MANUFACTURE, PROCESSING, ASSEMBLY, TEST, PACKAGE, AND REPAIR OF ALL IN ONE COMPUTERS, CYCLING COMPUTERS, SMART WEARABLE DEVICES, APPLIED COMPUTING, ELECTRONIC DEVICES OF PET AND RELATED PERIPHERAL PRODUCTS.

Original cycle start date:	29-November-2002
Expiry date of previous cycle:	NA
Certification / Recertification Audit date:	NA
Certification / Recertification cycle start date:	02-November-2020

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: **01-November-2023**

**Certificate No.:** TWN4579327Q/E      **Version:** 02      **Revision date:** 29-October-2021



0008

Certification body address: 5<sup>th</sup> Floor, 66 Prescott Street, London E1 8HG, United Kingdom  
Local office: 3F-B, No.16, Nanjing E. Rd., Sec.4, Songshan District, Taipei 10553, Taiwan

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation.  
To check this certificate validity please call: +886 2 2570 7655





# ACER INCORPORATED

## ISO 9001:2015

### Scope of certification

Site Name/Location	Site Address	Site Scope
HEAD OFFICE	8F., NO.88, SEC.1, XINTAI 5TH RD., XIZHI, NEW TAIPEI CITY 221, TAIWAN	IT PRODUCTS BUSINESS, DIGITAL DISPLAY BUSINESS, SERVER PRODUCTS BUSINESS: DESIGN, MANUFACTURING, AND SUPPLY CHAIN MANAGEMENT, SALE, MARKETING AND SERVICE OF NOTEBOOKS, DESKTOPS, ALL-IN- ONE PCS, TABLET PCS, COMPUTER PERIPHERAL PRODUCTS, DISPLAYS, PROJECTORS, WORKSTATIONS, THIN CLIENTS, STORAGE SYSTEMS, AND SERVERS UNDER MULTIPLE BRANDS: ACER®, GATEWAY®, PACKARD BELL®, AND ALTOS®.
HIGHPOINT SERVICE NETWORK CORPORATION	7F., NO.88, SEC.1, XINTAI 5TH RD., XIZHI, NEW TAIPEI CITY 221, TAIWAN	CUSTOMER SERVICE, PRODUCT REPAIR, REPAIR PART SUPPORT, AND IT OUTSOURCING MANAGEMENT OF IT PRODUCTS, DIGITAL DISPLAY, AND SERVER PRODUCTS.
ACER GADGET INC.	6F., NO. 125, WUGONG RD., WUGU DIST., NEW TAIPEI CITY 248, TAIWAN R.O.C.	MANUFACTURE, PROCESSING, ASSEMBLY, TEST, PACKAGE, AND REPAIR OF ALL IN ONE COMPUTERS, CYCLING COMPUTERS, SMART WEARABLE DEVICES, APPLIED COMPUTING, ELECTRONIC DEVICES OF PET AND RELATED PERIPHERAL PRODUCTS.

Certificate No.: TWN4579327Q/E

Version: 02

Revision date: 29-October-2021



Certification body address: 5<sup>th</sup> Floor, 66 Prescol Street, London E1 8HG, United Kingdom  
Local office: 3F-B, No.16, Nanjing E. Rd., Sec.4, Songshan District, Taipei 10553, Taiwan

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Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation.  
To check this certificate validity please call: +886 2 2570 7655



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## ACER INCORPORATED

NO. 88, SEC. 1, XINTAI 5TH RD., XIZHI DIST., NEW TAIPEI CITY 221, TAIWAN

This is a multi-site certificate, additional site(s) are listed on the next page(s)

*Bureau Veritas Certification Holding SAS - UK Branch certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below*

### ISO 14001:2015

*Scope of certification*

DESIGN, ASSEMBLY, SALES, MARKETING AND SERVICE OF THE INFORMATION COMMUNICATION TECHNOLOGY (ICT) RELATED PRODUCTS AND SERVICE UNDER MULTIPLE BRANDS: ACER®, GATEWAY®, AND PACKARD BELL® BRANDS.

Original cycle start date:	25-02-2003
Expiry date of previous cycle:	31-10-2020
Certification / Recertification Audit date:	04-09-2020
Certification / Recertification cycle start date:	01-11-2020
Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on:	31-10-2023

Certificate No. : TW005140

Version: 2

Issue Date: 28-10-2021



0008

*Certification Body Address: 3th Floor, 86 Prescot Street, London, E1 8PS, United Kingdom*

*Local Office: 3F-B, No. 18, Nanjing E. Rd., Sec. 4, Songshan Dist., Taipei 10553, Taiwan*

Further clarification regarding the scope and validity of this certificate, and the applicability of the management system requirements, please call: +886 2 2070 2025.







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# ACER INCORPORATED

## ISO 14001:2015

### Scope of certification

Site Name/Location	Site Address	Site Scope
XIZHI OFFICE	NO.88, SEC. 1, XINTAI 5TH RD., XIZHI DIST., NEW TAIPEI CITY 221, TAIWAN	DESIGN, SALES, MARKETING AND SERVICE OF THE INFORMATION COMMUNICATION TECHNOLOGY (ICT) RELATED PRODUCTS AND SERVICE UNDER MULTIPLE BRANDS: ACERS, GATEWAYS, AND PACKARD BELL BRANDS.
ACER CYBER SECURITY INC.	8F., NO. 563, SEC. 4, ZHONGXIAO E. RD., XINYI DIST., TAIPEI CITY 110, TAIWAN	PROVISION OF INFORMATION SECURITY TECHNICAL SERVICE.
ACER E-ENABLING SERVICE BUSINESS INC.	B. 10F., NO. 6, SEC. 4, XINYI RD., DAAN DIST., TAIPEI CITY 106, TAIWAN	SALES OF HARDWARE AND SOFTWARE FOR ENTERPRISES, AND PROVISION OF TECHNICAL SERVICE OF APPLICATION DEVELOPMENT, SYSTEM INTEGRATION AND CLOUD SERVICE.
ACER E-ENABLING SERVICE BUSINESS INC. KACHSIUNG OFFICE	22F.-1, NO. 366, BOAI 2ND RD., ZUOYING DIST., KACHSIUNG CITY 813, TAIWAN	

Certificate No. : TW005140

Version: 2

Issue Date: 28-10-2021



0008

Certification Body Address: 5th Floor, 66 Prescot Street, London, E1 6HQ, United Kingdom

Local Office: 3F-B, No. 16, Nanjing E. Rd., Sec. 4, Songshan Dist., Taipei 10553, Taiwan

Further clarifications regarding the scope and validity of this certificate, and the applicability of the management system requirements, please call: +886 2 2576 2655





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## ACER INCORPORATED

### ISO 14001:2015

#### Scope of certification

Site Name/Location	Site Address	Site Scope
ACER E-ENABLING SERVICE BUSINESS INC. TAICHUNG OFFICE	21F.-6, NO. 201, SEC. 2, WENXIN RD., XITUN DIST., TAICHUNG CITY 407, TAIWAN	SALES OF HARDWARE AND SOFTWARE FOR ENTERPRISES, AND PROVISION OF TECHNICAL SERVICE OF APPLICATION DEVELOPMENT, SYSTEM INTEGRATION AND CLOUD SERVICE
ACER E-ENABLING SERVICE BUSINESS INC. XINFAJI OFFICE	24F. (ACER BUILDING), NO.88, SEC.1, XINTAI 5TH RD., XIZHI DIST., NEW TAIPEI CITY 221, TAIWAN	
ACER SYNERGY TECH CORP.	7F-10, NO. 8, ZIQIANG S. RD., ZHUBEI CITY, HSNCHU COUNTY 302, TAIWAN	SALES OF ELECTRONIC AND COMMUNICATION DEVICES AND COMPONENTS
FUXING OFFICE (SHAREHOLDERS SERVICE OFFICE)	7F-5, NO. 365, FUXING N. ROAD, SONGSHAN DIST., TAIPEI CITY 105, TAIWAN	ADMINISTRATIVE SUPPORT ACTIVITIES; SHAREHOLDER SERVICE
GUANGHUA SERVICE CENTER	1, 2F., NO. 54, SEC. 2, ZHONGXIAO E. RD., ZHONGZHENG DIST., TAIPEI CITY 100, TAIWAN	PROVISION OF IOT PRODUCTS AFTER SERVICE

Certificate No.: TW005140

Version: 2

Issue Date: 28-10-2021



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Certification Body Address: 5th Floor, 66 Prescot Street, London, E1 8RD, United Kingdom

Local Office: 3F-B, No. 10, Nanjing E. Rd., Sec. 4, Songshan Dist., Taipei 10553, Taiwan

Further clarifications regarding the scope and validity of this certificate, and the applicability of the management system requirements, please call: +886 2 8070 1000





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## ACER INCORPORATED

### ISO 14001:2015

#### Scope of certification

Site Name/Location	Site Address	Site Scope
KAOHSIUNG SERVICE CENTER	1, 3F., NO. 155, JIJURU 2ND RD., SANMIN DIST., KAOHSIUNG CITY 807, TAIWAN	PROVISION OF ICT PRODUCTS AFTER SERVICE.
SONGXIN SERVICE CENTER	1F., NO. 163, SONGXIN RD., XINYI DIST., TAIPEI CITY 110, TAIWAN	
TAOYUAN SERVICE CENTER	NO. 215, SEC. 2, ZHONGYANG W. RD., ZHONGLI DIST., TAOYUAN CITY 320, TAIWAN	
HIGHPOINT SERVICE NETWORK CORPORATION	7F. (ACER BUILDING), NO.88, SEC.1, XINTAI 5TH RD., XIZHI DIST., NEW TAIPEI CITY 221, TAIWAN	PROVISION OF ICT RELATED PRODUCTS REPAIR SERVICE.
ISI SERVICE CORP.	3F-10, NO. 8, ZIQIANG S. RD., ZHUBEI CITY, HSINCHU COUNTY 302, TAIWAN	PROVISION OF CONSULTANCY AND TECHNICAL SERVICE OF ICT PRODUCTS SYSTEM INTEGRATION.

Certificate No.: TW005140

Version: 2

Issue Date: 28-10-2021



0008

Certification Body Address: 5th Floor, 86 Prescott Street, London, E1 6MG, United Kingdom

Local Office: 3F-B, No. 16, Nanjing E. Rd., Sec. 4, Songshan Dist., Taipei 10553, Taiwan

Further clarifications regarding the scope and validity of this certificate, and the applicability of the management system requirements, please call: +886 2 2570 1655







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# ACER INCORPORATED

## ISO 14001:2015

### Scope of certification

Site Name/Location	Site Address	Site Scope
SOUTH OFFICE	4F-4, 6, NO. 36, XINGUANG RD., LINGYA DIST., KAOHSIUNG CITY 802, TAIWAN	SALES AND PROVISION OF ICT PRODUCTS AFTER SERVICE.
TAICHUNG BRANCH OFFICE AND TAICHUNG SERVICE CENTER	1F., NO. 371, SEC. 1, WENXIN RD., NANTUN DIST., TAICHUNG CITY 405, TAIWAN	
TADYUAN DISTRIBUTION CENTER	1, 2F., NO. 28, NEIXIN RD., LUZHU DIST., TADYUAN CITY 336, TAIWAN	ASSEMBLY AND WAREHOUSE CENTER OF THE INFORMATION COMMUNICATION TECHNOLOGY (ICT) RELATED PRODUCTS UNDER MULTIPLE BRANDS: ACER®, GATEWAYS®, AND PACKARD BELL® BRANDS.
XINYI OFFICE	11F.-1, NO. 176, SEC. 1, KEELUNG RD., XINYI DIST., TAIPEI CITY 110, TAIWAN	PROVISION OF TECHNICAL SERVICE OF CLOUD SERVICE.

Certificate No. : TW005140

Version: 2

Issue Date: 28-10-2021



0008

Certification Body Address: 5th Floor, 56 Prescot Street, London, E1 8PS, United Kingdom

Local Office: 3F-B, No. 10, Nanjing-E Rd., Sec. 4, Songshan Dist., Taipei 10553, Taiwan

Further clarifications regarding the scope and validity of this certificate, and the applicability of the management system requirements, please call: +852 2379 1515





# EMC TEST REPORT

According to

- |  |                                   |
|--|-----------------------------------|
| EN55032:2015+AC:2016-07 (Class B)        | EN 55024:2010+A1:2015             |
| AS/NZS CISPR32:2015 (Class B)            | EN 61000-4-2:2009                 |
| EN 61000-3-2:2014                        | EN 61000-4-3:2006+A1:2008+A2:2010 |
| EN 61000-3-3:2013                        | EN 61000-4-4:2012                 |
| EN 301 489-1 V2.1.1 (2017-02) (Class B)  | EN 61000-4-5:2014+A1:2017         |
| EN 301 489-17 V3.1.1 (2017-02) (Class B) | EN 61000-4-6:2014                 |
| EN 301 489-52 V1.1.0 (2016-11) Draft     | EN 61000-4-8:2010                 |
|  | EN 61000-4-11:2004+A1:2017        |

Applicant : Acer Incorporated

---

Address : 8F, 88, Sec. 1, Xintai 5th Rd., Xizhi Dist.,  
New Taipei City, 22181, Taiwan

---

Equipment : Notebook Computer

---

Model No. : N19Q2

---

Marketing Name : C933, C933L, Touch SKU C933T, C933LT  
CB314-1H, CB314-1HT  
PCB314-1, PCB314-1T  
Acer Chromebook 314  
ZBC, ZBCA, ZBCB, ZBCD

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Trade Name : acer, Packard Bell

---

- The test result refers exclusively to the test presented test model / sample.
- Without written approval of *CerpPASS Technology Corp.* the test report shall not be reproduced except in full.
- This test report is only applicable to European Community.

Laboratory Accreditation





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### History of this test report

Report No.	Issue Date	Description	Version
TEEU1907120	Aug. 13, 2019	Original	A
TEEU2001040	Feb. 24, 2020	1. Added Marketing Name: C933L, Touch SKU C933T, C933LT 2. Add LTE 3. Add PCB (for LTE only) 4. Added EN 301 489-52 V1.1.0 (2016-11) Draft	A





# CERTIFICATE OF COMPLIANCE

According to

- |  |                                   |
|--|-----------------------------------|
| EN55032:2015+AC:2016-07 (Class B)        | EN 55024:2010+A1:2015             |
| AS/NZS CISPR32:2015 (Class B)            | EN 61000-4-2:2009                 |
| EN 61000-3-2:2014                        | EN 61000-4-3:2006+A1:2008+A2:2010 |
| EN 61000-3-3:2013                        | EN 61000-4-4:2012                 |
| EN 301 489-1 V2.1.1 (2017-02) (Class B)  | EN 61000-4-5:2014+A1:2017         |
| EN 301 489-17 V3.1.1 (2017-02) (Class B) | EN 61000-4-6:2014                 |
| EN 301 489-52 V1.1.0 (2016-11) Draft     | EN 61000-4-8:2010                 |
|  | EN 61000-4-11:2004+A1:2017        |

Applicant : Acer Incorporated

---

Address : 8F, 88, Sec. 1, Xintai 5th Rd., Xizhi Dist.,  
New Taipei City, 22181, Taiwan

---

Equipment : Notebook Computer

---

Model No. : N19Q2

---

Marketing Name : C933, C933L, Touch SKU C933T, C933LT

---

CB314-1H, CB314-1HT

---

PCB314-1, PCB314-1T

---

Acer Chromebook 314

---

ZBC, ZBCA, ZBCB, ZBCD

---

**I HEREBY CERTIFY THAT :**

The measurements shown in this test report were made in accordance with the procedures given in **EUROPEAN COUNCIL DIRECTIVE 2014/30/EU and 2014/53/EU**. The sample was received on Jan. 07, 2020 and the testing was carried out on Feb. 20, 2020 at CerpPASS Technology Corp.

Signature

Kero Kuo / EMC & RF Manager



## 1. Summary of Test Procedure and Test Results

Test Item	Normative References	Test Result
Conducted Emission	EN55032:2015+AC:2016-07, AS/NZS CISPR32:2015, EN 301 489-1 V2.1.1 (2017-02), EN 301 489-17 V3.1.1 (2017-02), EN 301 489-52 V1.1.0 (2016-11) Draft	PASS
Radiated Emission	EN55032:2015+AC:2016-07, AS/NZS CISPR32:2015, EN 301 489-1 V2.1.1 (2017-02), EN 301 489-17 V3.1.1 (2017-02), EN 301 489-52 V1.1.0 (2016-11) Draft	PASS
Harmonics	EN 61000-3-2:2014	N/A
Voltage Fluctuations	EN 61000-3-3:2013	PASS
EN 55024:2010+A1:2015, EN 301 489-1 V2.1.1 (2017-02), EN 301 489-17 V3.1.1 (2017-02), EN 301 489-52 V1.1.0 (2016-11) Draft		
Electrostatic Discharge Immunity Test (ESD)	EN 61000-4-2:2009	PASS
Radio Frequency Electromagnetic Field Immunity Test (RS)	EN 61000-4-3:2006+A1:2008+A2:2010	PASS
Electrical Fast Transient/ Burst Immunity Test (EFT)	EN 61000-4-4:2012	PASS
Surge Immunity Test	EN 61000-4-5:2014+A1:2017	PASS
Conduction Disturbances induced by Radio-Frequency Fields	EN 61000-4-6:2014	PASS
Power Frequency Magnetic Field Immunity Test	EN 61000-4-8:2010	PASS
Voltage Dips and Voltage Interruptions Immunity Test	EN 61000-4-11:2004+A1:2017	PASS

Note\*: Pass criterion is defined by the applicant. The test report is to follow the applicant specification.

The lab has lowered the uncertainty risk of test equipment, environment, and staff technicians according to ISO-IEC17025. Therefore we define test result as compliant when it complies with the standard without further evaluation of test result uncertainty.



## 2. Immunity Testing Performance Criteria Definition

For EN 55024

- A. Normal performance within limits specified by the manufacture, requestor or purchaser.
- B. Temporary loss of function or degradation of performance which ceases after the disturbance ceases, and from which the equipment under test recovers its normal performance, without operator intervention.
- C. Temporary loss of function or degradation of performance, the correction of which requires operation intervention.
- D. Loss of function or degradation of performance which is not recoverable, owing to damage to hardware or software, or loss of data.

For EN 301489

- CT: performance criteria for continuous phenomena applied to transmitters;
- TT: performance criteria for transient phenomena applied to transmitters;
- CR: performance criteria for continuous phenomena applied to receivers;
- TR: performance criteria for transient phenomena applied to receivers.



### 3. Test Configuration of Equipment under Test

#### 3.1. Feature of Equipment under Test

The devices can be installed inside the EUT are listed below:

Component	Vendor	Description
M/B	Quanta	DA0ZBCMBYYYY(Y=0-9, A-Z or blank)
CPU	Intel	Product Description of Processor Manufacturer and Max Speed up to and include 1.1GHz
Panel	AUO	B140YYYYYY (Y=0-9, A-Z or blank)
	BOE	NT140YYYYYY (Y=0-9, A-Z or blank)
Memory (on board)		LPDDR4 4266 (up to 2GB)
eMMC		NAND (up to 128GB)
Battery		One re-chargeable battery pack
WLAN	Intel	9560NGW
<b>LTE</b>	<b>Fibocom</b>	<b>L850-GL</b>
Camera		HD Camera
Adapter	Chicony	A18-045N1A
	Chicony	A16-045N1A
	DELTA	ADP-45HG B
	LITE-ON	PA-1450-50

The I/O ports of EUT are listed below:

I/O Port Type	Quantity
USB 3.0 Port	two
USB Type-C Port	two
Audio Port	one
Micro SD Card Slot	one

#### 3.2. Test Manner

- During testing, the interface cables and equipment positions were varied according to Europe Standard EN 55032.
- An executive program, "Web page" under Chrome, which generates a complete line of continuously repeating "H" pattern was used as the test software.  
The program was executed as follows:
  - Turn on the power of all equipment.
  - The EUT reads the test program from the hard disk drive and runs it.
  - The executive program "ITU-R.BT471" was executed to play colorbar.
  - Repeat the steps from 2 to 3.
- An executive program, "Filesystem Access sample" was executed to read and write data.
- An executive program, "Color Bar" was executed to play 1kHz audio.
- An executive program, "AMCAP2" was executed to capture image.
- An executive program, "Link" was executed to transmit and receive data to the remote workstation via Bluetooth and WLAN.
- The maximum operating frequency is above 108MHz, the test frequency range is from 30MHz to 6GHz.



h. The test modes of conduction and radiation test as follow:

The "Test Mode 1" generated the worst case, it was reported as the final data.

Component	Vendor	Mode 1 (H)	Mode 2 (H)	Mode 3 (H)	Mode 4 (H)	Mode 5 (H)	Mode 6 (H)
CPU	Intel \ Celeron ICD N4000 \ 1.10GHz	*	*	*	*	*	*
Memory	MICRON \ MT53B256M32D1NP-062	*	*	*	*	*	*
eMMC	HYNIX \ H26M62002JPR	*	*	*	*	*	*
Panel	AUO \ B140XTN07.2	*	*	*	*	*	*
Battery	LG \ AP18C4K	*	*	*	*	*	*
Adapter	Chicony \ A18-045N1A	*	*	*	*	*	*
WLAN	Intel \ 9560NGW	*	*	*	*	*	*
Camera	Quanta \ KS0HD0Q006	*	*	*	*	*	*
Position	Notebook 90°	*	*	*	*	*	*
Type-C	Type-C A charge + Type-C B HDMI	*	*	*	*	*	*
LTE	LTE Band 1	*					
	LTE Band 2		*				
	LTE Band 3			*			
	LTE Band 4				*		
	LTE Band 5					*	
	LTE Band 7						*
	LTE Band 8						
	LTE Band 20						
	LTE Band 28						
	LTE Band 38						
	LTE Band 40						
LTE Band 1 IDLE							

Component	Vendor	Mode 7 (H)	Mode 8 (H)	Mode 9 (H)	Mode 10 (H)	Mode 11 (H)	Mode 12 (H)
CPU	Intel \ Celeron ICD N4000 \ 1.10GHz	*	*	*	*	*	*
Memory	MICRON \ MT53B256M32D1NP-062	*	*	*	*	*	*
eMMC	HYNIX \ H26M62002JPR	*	*	*	*	*	*
Panel	AUO \ B140XTN07.2	*	*	*	*	*	*
Battery	LG \ AP18C4K	*	*	*	*	*	*
Adapter	Chicony \ A18-045N1A	*	*	*	*	*	*
WLAN	Intel \ 9560NGW	*	*	*	*	*	*
Camera	Quanta \ KS0HD0Q006	*	*	*	*	*	*
Position	Notebook 90°	*	*	*	*	*	*
Type-C	Type-C A charge + Type-C B HDMI	*	*	*	*	*	*
LTE	LTE Band 1						
	LTE Band 2						
	LTE Band 3						
	LTE Band 4						
	LTE Band 5						
	LTE Band 7						
	LTE Band 8	*					
	LTE Band 20		*				
	LTE Band 28			*			
	LTE Band 38				*		
	LTE Band 40					*	
LTE Band 1 IDLE						*	

Note:

Resolution H: EUT(2194\*1234@60Hz) + HDMI(3840\*2160@60Hz)

\*means chosen components



- i. The test modes of flicker and EMS test as follow:  
(components are same as the EMI test mode 1)

Harmonic Current Emissions/ Voltage Fluctuation, Flicker Test	
Test Mode	Operating Description
1	Full System
EMS Immunity Test	
Test Mode	Operating Description
1	Full System, Idle (LTE Band 1)
2	Full System, Link (LTE Band 1)
3	Disconnection external – only for ESD test

### 3.3. Description of Support Unit

#### EMI

Device	Manufacturer	Model No.	Description
Monitor	DELL	U2410f	Power Cable, Unshielded 1.8m VGA Cable, Shielding 1.8m
Monitor	ViewSonic	VS16006	Power Cable, Unshielded 1.8m HDMI Cable, Shielding 1.8m
Earphone	APPLE	EarPods	Audio Cable, Unshielding 1.35m
USB 3.0 HDD	WD	WD1600BEVT/P	USB3.0 Cable, Shielding 0.5m
Micro SD Card	TranScend	N/A	16GB
Test SIM Card	CHT	N/A	N/A
Remote workstation			
Notebook	DELL	Latitude E5440	Power Cable, Unshielded 1.8m
Router	D-Link	DIR-809	Power Cable, Unshielded 1.8m RJ45 Cable, Unshielded 1.8m
Radio Communication Analyzer	ANRITSU	MT8821C	Power Cable, Unshielded 1.8m N Type Cable, Shielded 5m
Use Cable			
Type-C to HDMI&VGA	N/A	N/A	Shielded 0.1m

#### EMS

Device	Manufacturer	Model No.	Description
Monitor	Acer	B246HQL	Power Cable, Unshielded 1.8m VGA Cable, Shielding 1.8m
Monitor	ENVISON	P2273whL	Power Cable, Unshielded 1.8m HDMI Cable, Shielding 1.8m
Earphone	APPLE	EarPods	Audio Cable, Unshielding 1.35m
USB 3.0 Flash	SanDisk	CZ73 16GB	16GB
Micro SD Card	TranScend	N/A	16GB
Test SIM Card	CHT	N/A	N/A
Remote workstation			
Notebook	DELL	VOSTRO 3700	Power Cable, Unshielded 1.8m
Router	D-Link	DIR-809	Power Cable, Unshielded 1.8m RJ45 Cable, Unshielded 1.8m
Radio Communication Analyzer	ANRITSU	MT8821C	Power Cable, Unshielded 1.8m N Type Cable, Shielded 5m
Use Cable			
Type-C to HDMI&VGA	N/A	N/A	Shielded 0.1m



### 3.4. General Information of Test

Test Site	<b>Cerpass Technology Corporation Test Laboratory</b>
	Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel:+886-3-3226-888 Fax:+886-3-3226-881
	<input checked="" type="checkbox"/> Conducted emission test (CON01-NK) <input type="checkbox"/> Conducted emission test (CON02-NK) <input checked="" type="checkbox"/> Radiated emission test (10M01-NK) <input type="checkbox"/> Radiated emission test (3M01-NK) <input type="checkbox"/> Radiated emission test (3M02-NK) <input checked="" type="checkbox"/> Radiated disturbance above 1GHz (10M01-NK) <input type="checkbox"/> Radiated disturbance above 1GHz (3M01-NK) <input type="checkbox"/> Radiated disturbance above 1GHz (3M02-NK)
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 6000MHz
Test Distance :	The test distance of radiated emission below 1GHz from antenna to EUT is 10 M. The test distance of radiated emission above 1GHz from antenna to EUT is 3 M.

### 3.5. Measurement Uncertainty

Measurement Item	Measurement Frequency	Polarization	Uncertainty
Conducted Emission	9 kHz ~ 30 MHz	LINE / NEUTRAL	± 3.25 dB
Conducted Emission (Telecommunication Port)	9 kHz ~ 30 MHz	N/A	± 4.1 dB
Radiated Emission	30 MHz ~ 1,000 MHz	Vertical / Horizontal	± 3.93 dB
	1,000 MHz ~ 6,000 MHz	Vertical / Horizontal	± 4.01 dB
	6,000 MHz ~ 18,000 MHz	Vertical / Horizontal	± 4.72 dB

The measurement uncertainty will be considered, when test result margin to the limit.



## 4. Test of Conducted Emission

### 4.1. Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 kHz and return leads of the EUT according to the methods defined in European Standard EN 55032.

**Table A.8 – Requirements for conducted emissions from the AC mains power ports of Class A equipment**

Applicable to 1. AC mains power ports (3.1.1)				
Table clause	Frequency range MHz	Coupling device (see Table A.7)	Detector type / bandwidth	Class A limits dB( $\mu$ V)
A8.1	0.15 – 0.5	AMN	Quasi Peak / 9 kHz	79
	0.5 - 30			73
A8.2	0.15 – 0.5	AMN	Average / 9 kHz	66
	0.5 - 30			60
NOTE Apply A8.1 and A8.2 across the entire frequency range.				

**Table A.9 – Requirements for conducted emissions from the AC mains power ports of Class B equipment**

Applicable to 1. AC mains power ports (3.1.1)				
Table clause	Frequency range MHz	Coupling device (see Table A.7)	Detector type / bandwidth	Class B limits dB( $\mu$ V)
A9.1	0.15 – 0.5	AMN	Quasi Peak / 9 kHz	66 – 56
	0.5 - 5			56
	5 - 30			60
A9.2	0.15 – 0.5	AMN	Average / 9 kHz	56 – 46
	0.5 - 30			46
	5 - 30			50
NOTE Apply A9.1 and A9.2 across the entire frequency range.				





**Table A.10 – Requirements for asymmetric mode conducted emissions  
from Class A equipment**

Applicable to					
1. wired network ports (3.1.30)					
2. optical fibre ports (3.1.24) with metallic shield or tension members					
3. antenna ports (3.1.3)					
Table clause	Frequency range MHz	Coupling device (see Table A.7)	Detector type / bandwidth	Class A voltage limits dB( $\mu$ V)	Class A current limits dB( $\mu$ A)
A10.1	0.15 – 0.5	AAN	Quasi Peak / 9 kHz	97 – 87	n/a
	0.5 - 30			87	
	0.15 – 0.5	AAN	Average / 9 kHz	84 – 74	
	0.5 - 30			74	
A10.2	0.15 – 0.5	CVP and current probe	Quasi Peak / 9 kHz	97 - 87	53-43
	0.5 - 30			87	43
	0.15 – 0.5	CVP and current probe	Average / 9 kHz	87 – 74	40 – 30
	0.5 - 30			74	30
A10.3	0.15 – 0.5	Current Probe	Quasi Peak / 9 kHz	n/a	53 – 43
	0.5 - 30				43
	0.15 – 0.5	Current Probe	Average / 9 kHz		40 - 30
	0.5 - 30				30
NOTE 1 The choice of coupling device and measurement procedure is defined in Annex C.					
NOTE 2 AC mains power ports shall meet the limits given in Table A.8.					
NOTE 3 The test shall cover the entire frequency range.					
NOTE 4 The application of the voltage and/or current limits is dependent on the measurement procedure used. Refer to Table C.1 for applicability.					
NOTE 5 Testing is required at only one EUT supply voltage and frequency.					
NOTE 6 Applicable to ports listed above and intended to connect to cables longer than 3 m.					



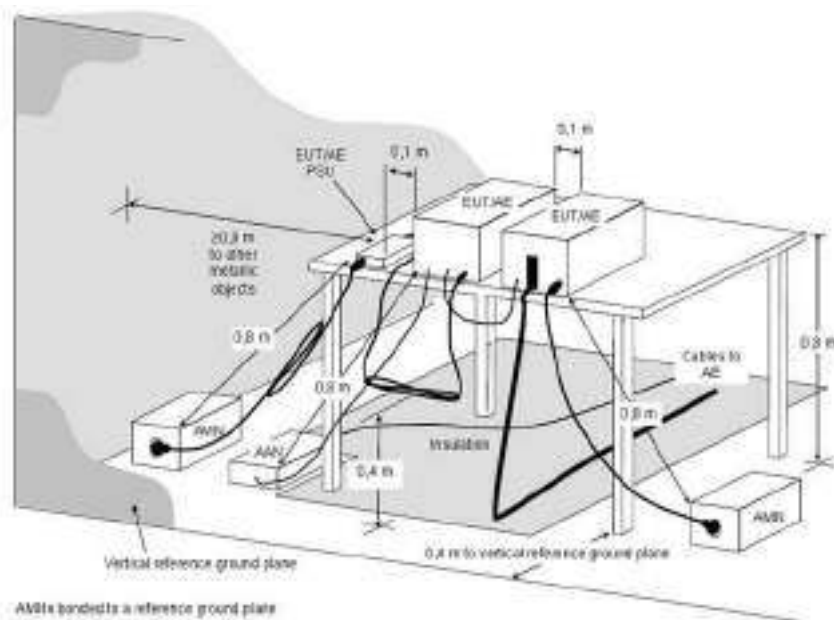
**Table A.11 – Requirements for asymmetric mode conducted emissions  
from Class B equipment**

Applicable to					
1. wired network ports (3.1.30)					
2. optical fibre ports (3.1.24) with metallic shield or tension members					
3. broadcast receiver tuner ports (3.1.8)					
4. antenna ports (3.1.3)					
Table clause	Frequency range MHz	Coupling device (see Table A.7)	Detector type / bandwidth	Class B voltage limits dB( $\mu$ V)	Class B current limits dB( $\mu$ A)
A11.1	0.15 – 0.5	AAN	Quasi Peak / 9 kHz	84 – 74	n/a
	0.5 - 30			74	
	0.15 – 0.5	AAN	Average / 9 kHz	74 – 64	
	0.5 - 30			64	
A11.2	0.15 – 0.5	CVP and current probe	Quasi Peak / 9 kHz	84 – 74	40 – 30
	0.5 - 30			74	30
	0.15 – 0.5	CVP and current probe	Average / 9 kHz	74 – 64	30 – 20
	0.5 - 30			64	20
A11.3	0.15 – 0.5	Current Probe	Quasi Peak / 9 kHz	n/a	40 – 30
	0.5 - 30				30
	0.15 – 0.5	Current Probe	Average / 9 kHz		30 - 20
	0.5 - 30				20
NOTE 1 The choice of coupling device and measurement procedure is defined in Annex C.					
NOTE 2 Screened ports including TV broadcast receiver tuner ports are tested with a common-mode impedance of 150 $\Omega$ . This is typically accomplished with the screen terminated by 150 $\Omega$ to earth.					
NOTE 3 AC mains power ports shall meet the limits given in Table A.9.					
NOTE 4 The test shall cover the entire frequency range.					
NOTE 5 The application of the voltage and/or current limits is dependent on the measurement procedure used. Refer to Table C.1 for applicability.					
NOTE 6 Testing is required at only EUT supply voltage and frequency.					
NOTE 7 Applicable to ports listed above and intended to connect to cables longer than 3 m.					

### 4.2. Test Procedures

- a. The EUT was placed on a desk 0.8 meters height from the metal ground plane and 0.4 meter from the conducting wall of the shielding room and it was kept at least 0.8 meters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The CISPR states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

### 4.3. Typical Test Setup



NOTE: The 0.8 m distance specified between EUT/PCU and AMN/AN, is applicable only to the EUT being measured. If the device is AE then it shall be 20.8 m.

Figure D.2 – Example measurement arrangement for table-top EUT (Conducted emission measurement – alternative 1)

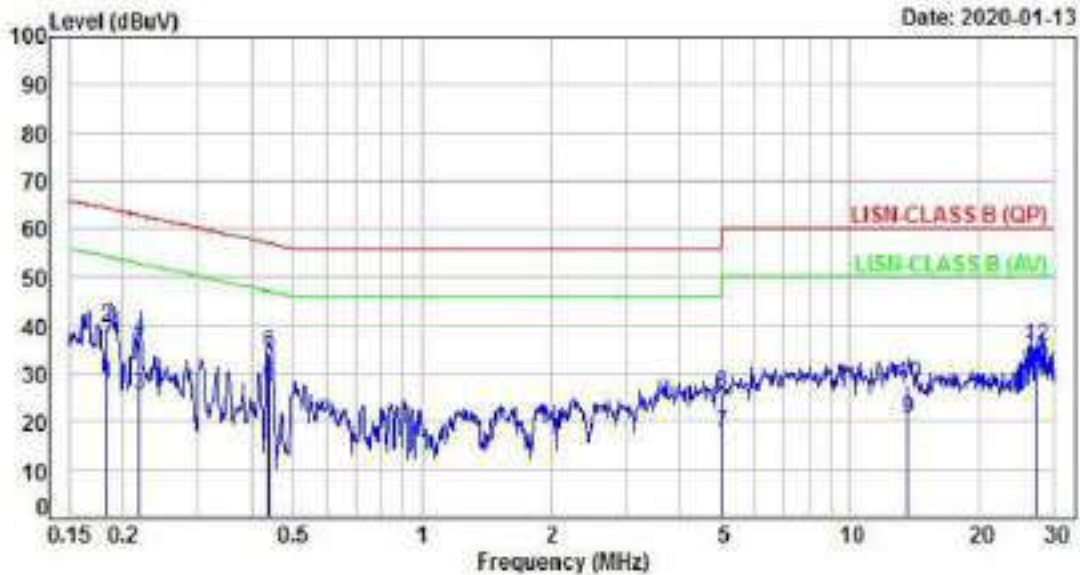
### 4.4. Measurement Equipment

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
EMI Receiver	R&S	ESCI	100443	2019/03/29	2020/03/28
LISN	Schwarzbeck	NSLK 8127	8127-740	2019/05/22	2020/05/21
LISN	Schwarzbeck	NSLK 8127	8127-568	2019/03/15	2020/03/14
Pulse Limiter	R&S	ESH3-Z2	101934	2019/03/12	2020/03/11
Cable-6m (9kHz~300MHz)	N/A	CFD300-NL	N/A	2019/03/28	2020/03/27
Software	AUDIX	E3	Version: 8.14.806b	N/A	N/A



### 4.5. Test Result and Data of Power Port

Test Mode	: Mode 1	Pol/Phase	: LINE
Test Frequency	: 0.15 MHz ~ 30 MHz	Test Voltage	: AC 230V
Test Date	: Jan. 13, 2020	Test Engineer	: Freeman
Temperature	: 21°C	Humidity	: 42%

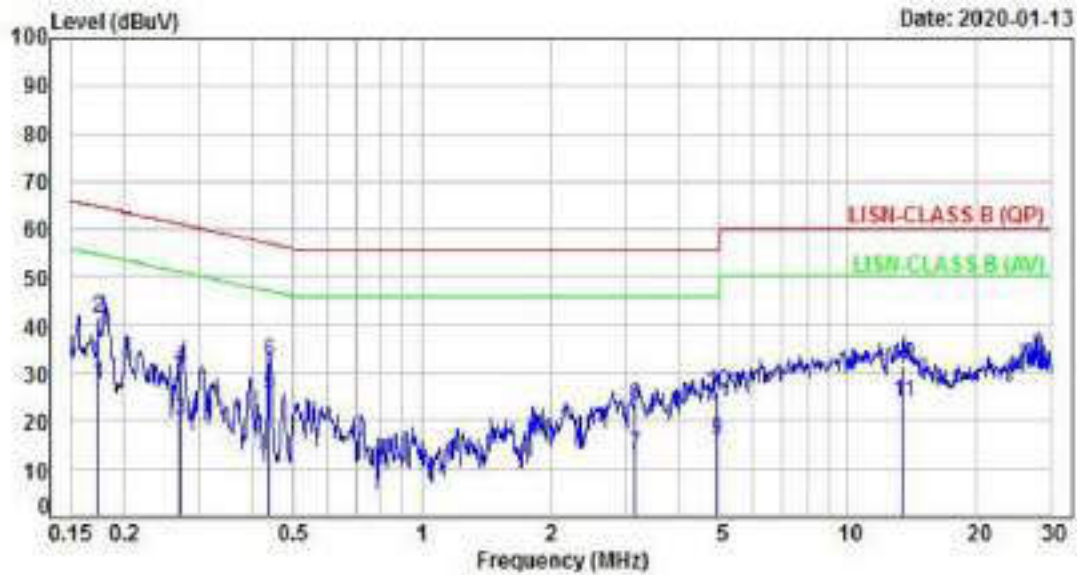


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	P/F
1	0.18	9.92	17.68	27.60	54.34	-26.74	Average	P
2	0.18	9.92	29.55	39.47	64.34	-24.87	QP	P
3	0.22	9.92	15.53	25.45	52.86	-27.41	Average	P
4	0.22	9.92	27.07	36.99	62.86	-25.87	QP	P
5	0.44	9.94	17.37	27.31	47.12	-19.81	Average	P
6	0.44	9.94	24.21	34.15	57.12	-22.97	QP	P
7	4.99	10.17	7.28	17.45	46.00	-28.55	Average	P
8	4.99	10.17	15.57	25.74	56.00	-30.26	QP	P
9	13.59	10.45	10.11	20.56	50.00	-29.44	Average	P
10	13.59	10.45	17.34	27.79	60.00	-32.21	QP	P
11	27.17	10.90	22.85	33.75	50.00	-16.25	Average	P
12	27.17	10.90	24.91	35.81	60.00	-24.19	QP	P

Note: Level = Reading + Factor  
Margin = Level – Limit  
Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss



Test Mode	: Mode 1	Pol/Phase	: NEUTRAL
Test Frequency	: 0.15 MHz ~ 30 MHz	Test Voltage	: AC 230V
Test Date	: Jan. 13, 2020	Test Engineer	: Freeman
Temperature	: 21°C	Humidity	: 42%



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.17	9.95	17.93	27.88	54.73	-26.85	Average	P
2	0.17	9.95	31.35	41.30	64.73	-23.43	QP	P
3	0.27	9.95	18.87	28.82	51.07	-22.25	Average	P
4	0.27	9.95	20.96	30.91	61.07	-30.16	QP	P
5	0.44	9.96	15.41	25.37	47.13	-21.76	Average	P
6	0.44	9.96	22.53	32.49	57.13	-24.64	QP	P
7	3.16	10.13	2.76	12.89	46.00	-33.11	Average	P
8	3.16	10.13	13.22	23.35	56.00	-32.65	QP	P
9	4.92	10.19	5.96	16.15	46.00	-29.85	Average	P
10	4.92	10.19	15.76	25.95	56.00	-30.05	QP	P
11	13.41	10.48	13.59	24.07	50.00	-25.93	Average	P
12	13.41	10.48	20.94	31.42	60.00	-28.58	QP	P

Note: Level = Reading + Factor  
Margin = Level – Limit  
Factor = (L1SN, ISN, PLC or current probe) Factor + Cable Loss





#### 4.6. Test Photographs of Power Port

Front View



Rear View



## 5. Test of Radiated Emission

### 5.1. Test Limit

The EUT shall meet the limits of below Table when measured at the measuring distance R in accordance with the methods described in European Standard EN 55032. If the reading on the measuring receiver shows fluctuations close to the limit, the reading shall be observed for at least 15 s at each measurement frequency; the highest reading shall be recorded, with the exception of any brief isolated high reading, which shall be ignored.

**Table 1 – Required highest frequency for radiated measurement**

Highest internal frequency (F <sub>x</sub> )	Highest measured frequency
F <sub>x</sub> ≤ 108 MHz	1 GHz
108 MHz < F <sub>x</sub> ≤ 500 MHz	2 GHz
500 MHz < F <sub>x</sub> ≤ 1 GHz	5 GHz
F <sub>x</sub> > 1 GHz	5 x F <sub>x</sub> up to a maximum of 6 GHz
NOTE 1 For FM and TV broadcast receivers, F <sub>x</sub> is determined from the highest frequency generated or used excluding the local oscillator and tuned frequencies.	
NOTE 2 F <sub>x</sub> is defined in 3.1.19.	

Where the F<sub>x</sub> is unknown, the radiated emission measurements shall be performed up to 6 GHz.

**Table A.2 – Requirements for radiated emissions at frequencies up to 1 GHz for Class A equipment**

Table clause	Frequency range MHz	Measurement		Class A limits dB(μV/m)
		Distance m	Detector type / bandwidth	OATS / SAC (see Table A.1)
A2.1	30 – 230	10	Quasi Peak / 120 kHz	40
	230 – 1 000			47
A2.2	30 – 230	3		50
	230 – 1 000			57
NOTE Apply only A2.1 or A2.2 across the entire frequency range.				

**Table A.3 – Requirements for radiated emissions at frequencies above 1 GHz for Class A equipment**

Table clause	Frequency range MHz	Measurement		Class A limits dB(μV/m)
		Distance m	Detector type / bandwidth	FSOATS (see Table A.1)
A3.1	1 000 – 3 000	3	Average / 1 MHz	56
	3 000 – 6 000			60
A3.2	1 000 – 3 000		Peak / 1 MHz	76
	3 000 – 6 000			80
NOTE Apply A3.1 and A3.2 across the frequency range from 1000 MHz to the highest required frequency of measurement derived from Table 1.				

**Table A.4 – Requirements for radiated emissions at frequencies up to 1 GHz for Class B equipment**

Table clause	Frequency range MHz	Measurement		Class B limits dB( $\mu$ V/m)
		Distance m	Detector type / bandwidth	OATS / SAC (see Table A.1)
A4.1	30 – 230	10	Quasi Peak / 120 kHz	30
	230 – 1 000			37
A4.2	30 – 230	3		40
	230 – 1 000			47

NOTE Apply only table clause A4.1 or A4.2 across the entire frequency range.

**Table A.5 – Requirements for radiated emissions at frequencies above 1 GHz for Class B equipment**

Table clause	Frequency range MHz	Measurement		Class B limits dB( $\mu$ V/m)
		Distance m	Detector type / bandwidth	FSOATS (see Table A.1)
A5.1	1 000 – 3 000	3	Average / 1 MHz	50
	3 000 – 6 000			54
A5.2	1 000 – 3 000		Peak / 1 MHz	70
	3 000 – 6 000			74

NOTE Apply A5.1 and A5.2 across the frequency range from 1000 MHz to the highest required frequency of measurement derived from Table 1.

**Table A.6 – Requirements for radiated emissions from FM receivers**

Table clause	Frequency range MHz	Measurement		Class B limit dB( $\mu$ V/m)		
		Distance m	Detector type / bandwidth	Fundamental	Harmonics	
				OATS/SAC (see Table A.1)	OATS/SAC (see Table A.1)	
A6.1	30 – 230	10	Quasi peak / 120 kHz	50	42	
	230 – 300				42	
	300 – 1 000				46	
A6.2	30 – 230	3		Quasi peak / 120 kHz	60	52
	230 – 300					52
	300 – 1 000					56

NOTE 1 Apply only A.6.1 or A.6.2 across the entire frequency range.  
NOTE 2 These relaxed limits apply only to emissions at the fundamental and harmonic frequencies of the local oscillator. Signals at all other frequencies shall be compliant with the limits given in Table A.4.



**Table A.12 – Requirements for conducted differential voltage emissions from Class B equipment**

Applicable to 1.TV broadcast receiver tuner ports (3.1.8) with an accessible connector 2.RF modulator output ports (3.1.27) 3.FM broadcast receiver tuner ports (3.1.8) with an accessible connector						
Table clause	Frequency Range MHz	Detector type / bandwidth	Class B limits dB( $\mu$ V) $75\Omega$			Applicability
			Other	Local Oscillator Fundamental	Local Oscillator Harmonics	
A12.1	30 - 950	For frequencies $\leq 1$ GHz	46	46	46	See NOTE 1
	950 – 2 150		46	54	54	
A12.2	950 – 2 150		46	54	54	See NOTE 2
A12.3	30 – 300	Quasi Peak / 120 kHz	46	54	50	See NOTE 3
	300 – 1 000				52	
A12.4	30 - 300	For frequencies $\geq 1$ GHz	46	66	59	See NOTE 4
	300 – 1 000				52	
A12.5	30 - 950				Peak / 1 MHz	46
	950 – 2 150	n/a	54			
NOTE 1 Television receivers (analogue or digital), video recorders and PC TV broadcast receiver tuner cards working in channels between 30 MHz and 1 GHz, and digital audio receivers. NOTE 2 Tuner units (not the LNB) for satellite signal reception. NOTE 3 Frequency modulation audio receivers and PC tuner cards. NOTE 4 Frequency modulation car radios. NOTE 5 Applicable to EUT2 with RF modulator output ports (for example DVD equipment, video recorders, camcorders and decoders etc.) designed to connect to TV broadcast receiver tuner ports. NOTE 6 Testing is required at only one EUT supply voltage and frequency. NOTE 7 The term ‘other’ refers to all emissions other than the fundamental and the harmonics of the local oscillator. NOTE 8 The test shall be performed with the device operating at each reception channel. NOTE 9 The test shall cover the entire frequency range.						

## 5.2. Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3/10 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a half wave dipole and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 6 dB margin will be repeated one by one using the quasi-peak method and reported.

## 5.3. Typical Test Setup

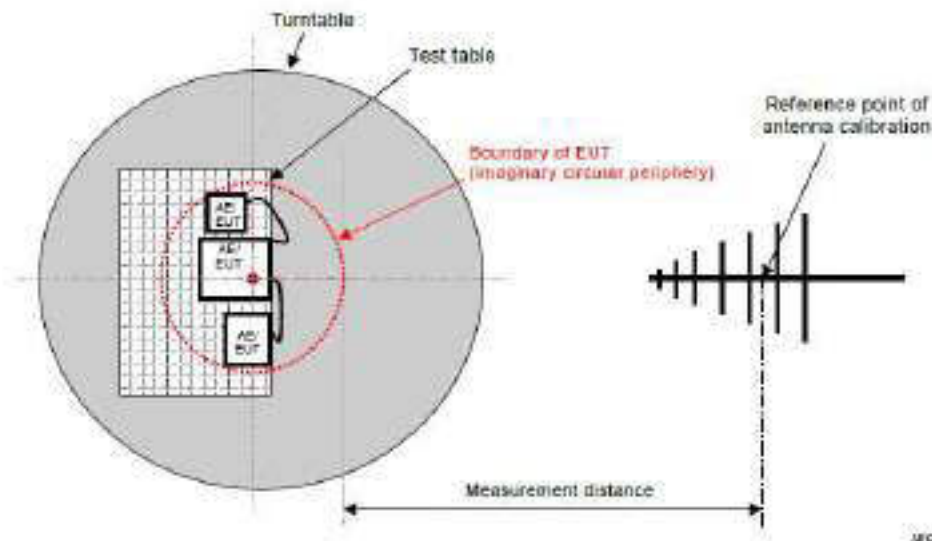
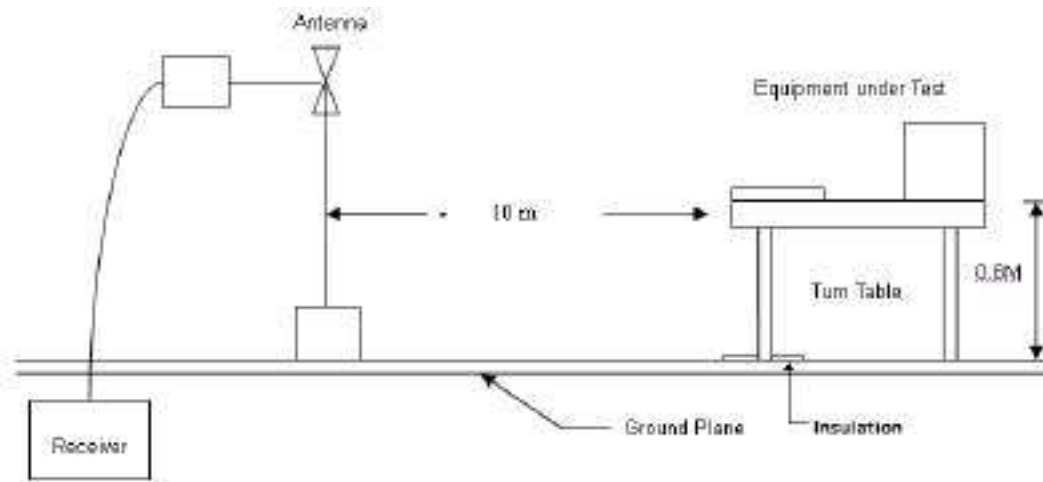
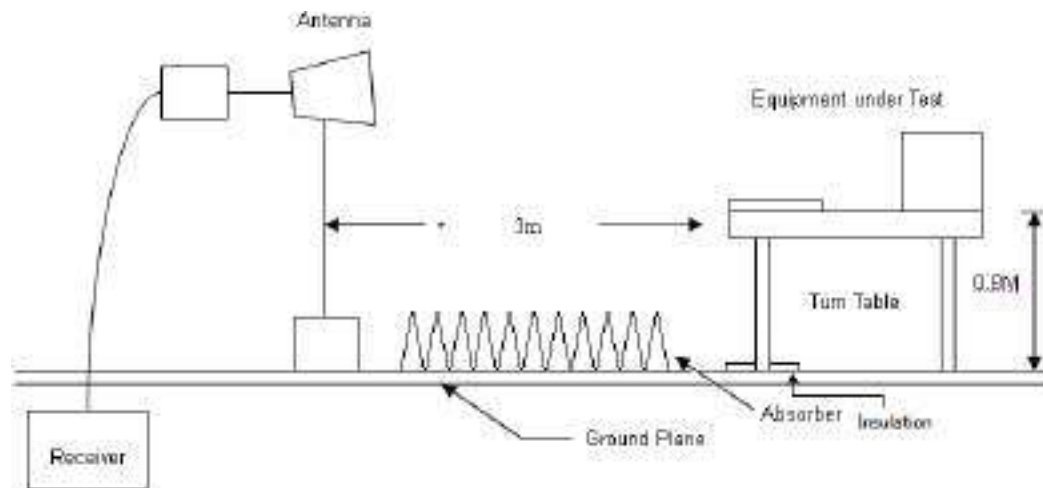


Figure C.1 – Measurement distance

Below 1GHz Test Setup



Above 1GHz Test Setup



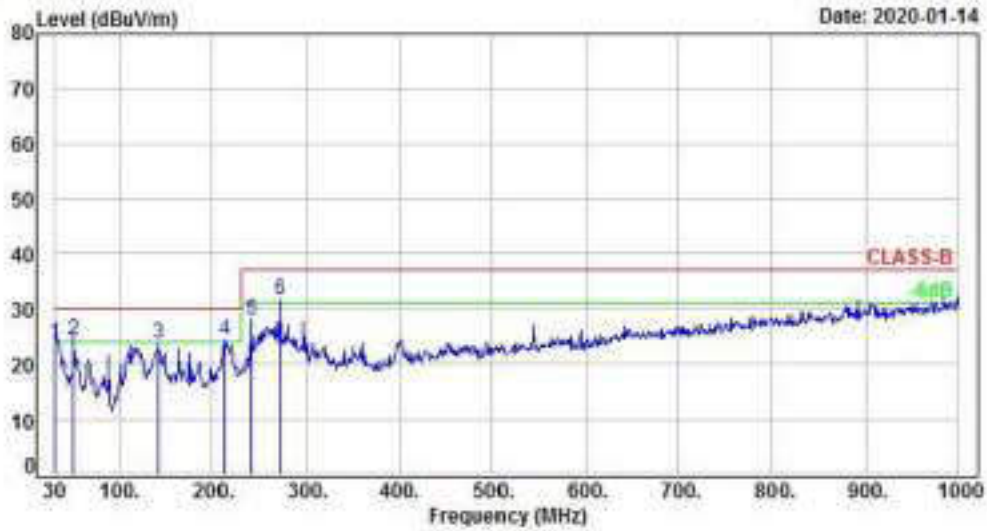
**5.4. Measurement Equipment**

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Bilog Antenna(H)	Sunol	JB1	A020514-1	2019/03/26	2020/03/25
Bilog Antenna(V)	Sunol	JB1	A020514-2	2019/04/23	2020/04/22
EMI Receiver(V)	R&S	ESCI	101402	2019/03/14	2020/03/13
EMI Receiver(H)	R&S	ESCI 7	100963	2019/03/29	2020/03/28
Preamplifier(V)	EM Electronics corp.	EM330	60610	2019/03/11	2020/03/10
Preamplifier(H)	EM Electronics corp.	EM330	60611	2019/03/11	2020/03/10
Cable-16m (30MHz-1GHz)(H)	HUBER SUHNER	RG-214	01110M	2019/06/20	2020/06/19
Cable-4m (30MHz-1GHz)(H)	HUBER SUHNER	RG-214	02951M	2019/06/21	2020/06/20
Cable-1m 30MHz-1GHz)(H)	HUBER SUHNER	RG-214	01098M	2019/06/21	2020/06/20
Cable-10m (30MHz-1GHz)(V)	HUBER SUHNER	RG-214	01126M	2019/06/21	2020/06/20
Cable-4m (30MHz-1GHz)(V)	HUBER SUHNER	RG-214	02953M	2019/06/21	2020/06/20
Cable-1m (30MHz-1GHz)(V)	HUBER SUHNER	RG-214	01099M	2019/06/21	2020/06/20
Horn Antenna	Schwarzbeck	BBHA 9120 D	9120D-1785	2019/09/11	2020/09/10
Spectrum Analyzer	R&S	FSP 40	100047	2019/03/28	2020/03/27
Preamplifier	EM Electronics corp.	EM01G18G	60702	2019/08/15	2020/08/14
Cable-0.5m (30MHz-40GHz)	HUBER SUHNER	SUCOFLEX 102	36270/2	2019/03/14	2020/03/13
Cable-3m (1GHz-26.5GHz)	HUBER SUHNER	SUCOFLEX 102	28417/2	2019/03/13	2020/03/12
Software	AUDIX	E3	Version: 8.2014-6-4	N/A	N/A



### 5.5. Test Result and Data (30MHz ~ 1GHz)

Test Mode	: Mode 1	Pol/Phase	: VERTICAL
Test Frequency	: 30 MHz ~ 1 GHz	Test Voltage	: AC 230V
Test Date	: Jan. 14, 2020	Test Engineer	: Tien
Temperature	: 21°C	Humidity	: 59%

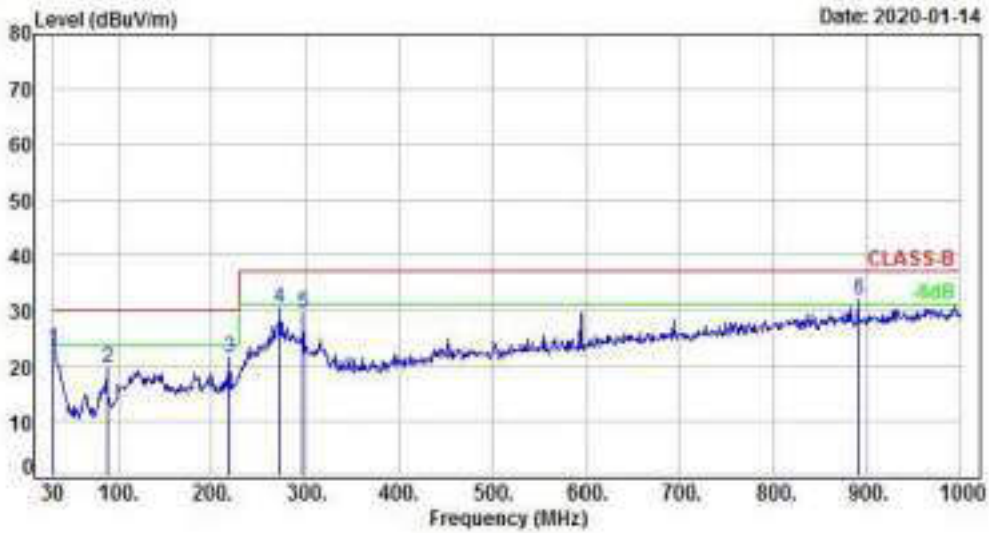


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.97	-3.68	27.37	23.69	30.00	-6.31	QP	200	122	P
2	50.37	-16.73	41.12	24.39	30.00	-5.61	QP	100	80	P
3	142.52	-10.42	34.02	23.60	30.00	-6.40	Peak	100	209	P
4	211.39	-12.47	36.74	24.27	30.00	-5.73	QP	100	246	P
5	241.46	-11.12	38.97	27.85	37.00	-9.15	Peak	100	249	P
6	271.53	-9.03	40.53	31.50	37.00	-5.50	QP	100	196	P

Note: Level = Reading + Factor  
 Margin = Level – Limit  
 Factor = Antenna Factor + Cable Loss - Amplifier Factor



Test Mode	: Mode 1	Pol/Phase	: HORIZONTAL
Test Frequency	: 30 MHz ~ 1 GHz	Test Voltage	: AC 230V
Test Date	: Jan. 14, 2020	Test Engineer	: Tien
Temperature	: 21°C	Humidity	: 59%



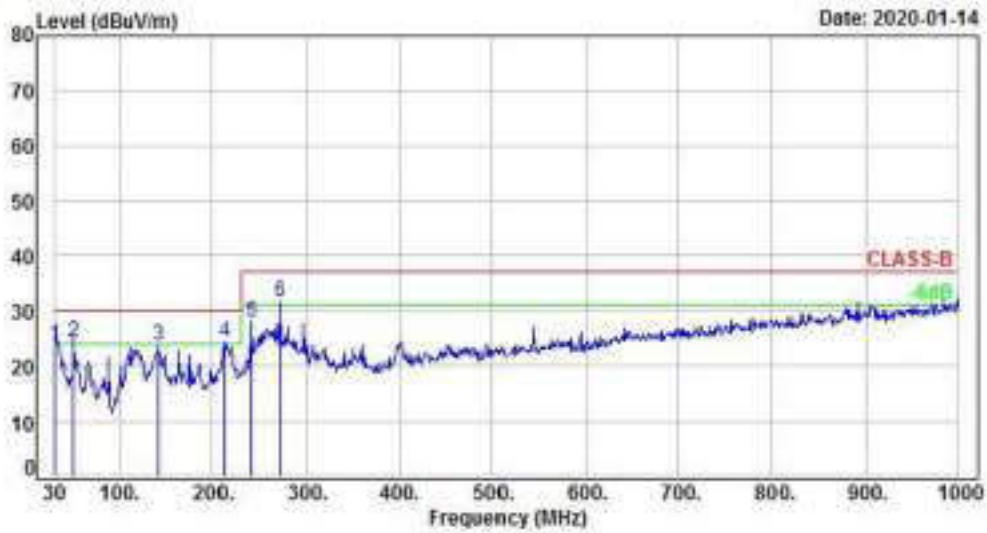
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-2.44	25.55	23.11	30.00	-6.89	QP	300	320	P
2	87.23	-16.03	35.78	19.75	30.00	-10.25	Peak	300	357	P
3	219.15	-11.59	33.17	21.58	30.00	-8.42	Peak	400	157	P
4	271.53	-8.54	38.93	30.39	37.00	-6.61	Peak	400	227	P
5	296.75	-8.32	37.95	29.63	37.00	-7.37	Peak	200	307	P
6	891.36	4.03	28.06	32.09	37.00	-4.91	QP	100	137	P

Note: Level = Reading + Factor  
 Margin = Level – Limit  
 Factor = Antenna Factor + Cable Loss - Amplifier Factor



### 5.6. Test Result and Data (1GHz ~ 6GHz)

Test Mode	: Mode 1	Pol/Phase	: VERTICAL
Test Frequency	: 1 GHz ~ 6 GHz	Test Voltage	: AC 230V
Test Date	: Jan. 14, 2020	Test Engineer	: Tien
Temperature	: 21.3°C	Humidity	: 55%



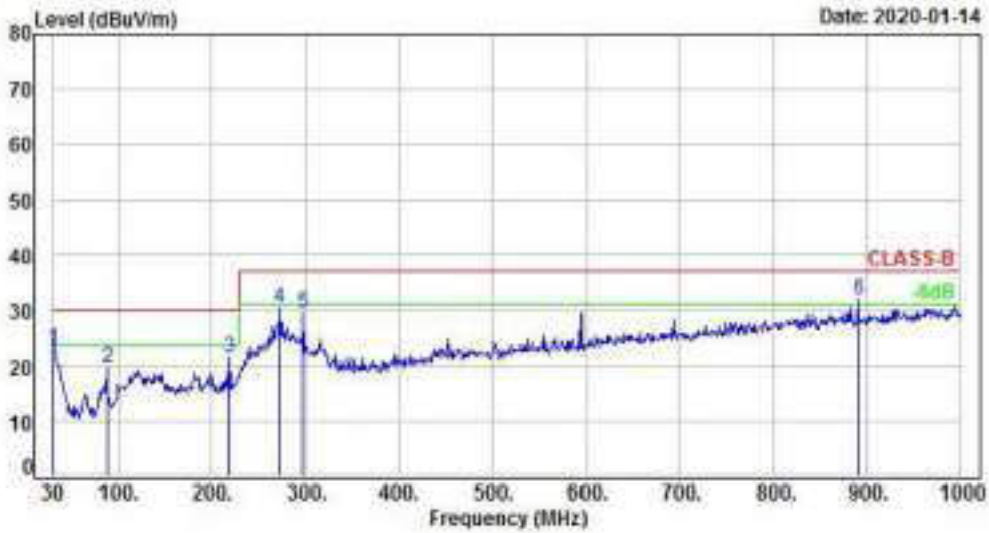
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.97	-3.68	27.37	23.69	30.00	-6.31	QP	200	122	P
2	50.37	-16.73	41.12	24.39	30.00	-5.61	QP	100	80	P
3	142.52	-10.42	34.02	23.60	30.00	-6.40	Peak	100	209	P
4	211.39	-12.47	36.74	24.27	30.00	-5.73	QP	100	246	P
5	241.46	-11.12	38.97	27.85	37.00	-9.15	Peak	100	249	P
6	271.53	-9.03	40.53	31.50	37.00	-5.50	QP	100	196	P

Note: Level = Reading + Factor  
 Margin = Level – Limit  
 Factor = Antenna Factor + Cable Loss - Amplifier Factor





Test Mode	: Mode 1	Pol/Phase	: HORIZONTAL
Test Frequency	: 1 GHz ~ 6 GHz	Test Voltage	: AC 230V
Test Date	: Jan. 14, 2020	Test Engineer	: Tien
Temperature	: 21.3°C	Humidity	: 55%



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	30.00	-2.44	25.55	23.11	30.00	-6.89	QP	300	320	P
2	87.23	-16.03	35.78	19.75	30.00	-10.25	Peak	300	357	P
3	219.15	-11.59	33.17	21.58	30.00	-8.42	Peak	400	157	P
4	271.53	-8.54	38.93	30.39	37.00	-6.61	Peak	400	227	P
5	296.75	-8.32	37.95	29.63	37.00	-7.37	Peak	200	307	P
6	891.36	4.03	28.06	32.09	37.00	-4.91	QP	100	137	P

Note: Level = Reading + Factor  
 Margin = Level – Limit  
 Factor = Antenna Factor + Cable Loss - Amplifier Factor



### 5.7. Test Photographs (30MHz ~ 1GHz)

Front View



Rear View





### 5.8. Test Photographs (1GHz ~ 6GHz)

Front View



Rear View





## 6. Harmonics Test

### 6.1. Limits of Harmonics Current Measurement

Limits for Class A equipment		Limits for Class D equipment		
Harmonics Order n	Max. Permissible harmonics current A	Harmonics Order n	Max. Permissible harmonics current per watt mA/W	Max. Permissible harmonics current A
Odd harmonics		Odd Harmonics only		
3	2.30	3	3.4	2.30
5	1.14	5	1.9	1.14
7	0.77	7	1.0	0.77
9	0.40	9	0.5	0.40
11	0.33	11	0.35	0.33
13	0.21	13	0.30	0.21
15<=n<=39	0.15 x 15/n	15<=n<=39	3.85/n	0.15 x 15/n
Even harmonics				
2	1.08			
4	0.43			
6	0.30			
8<=n<=40	0.23 x 8/n			

NOTE:

1. Class A and Class D are classified according to item section 5 of EN 61000-3-2:2014.
2. According to section 7 of EN 61000-3-2:2014, the above limits for all equipment except for lighting equipment are for all applications having an active input power > 75 W and no limits apply for equipment with an active input power up to and including 75 W.

### 6.2. Test Result and Data

The limits are not specified for equipment with a rated power of 75W or less.  
The EUT meets the above condition, so it conforms to EN 61000-3-2.



## 7. Voltage Fluctuations Test

### 7.1. Test Procedure

The equipment shall be tested under the conditions of **Clause 5**.

The total impedance of the test circuit, excluding the appliance under test, but including the internal impedance of the supply source, shall be equal to the reference impedance.

The stability and tolerance of the reference impedance shall be adequate to ensure that the overall accuracy of  $\pm 8\%$  is achieved during the whole assessment procedure.

### 7.2. Measurement Equipment

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Power & Harmonics Analyzer	Teseq	NSG1007, CCN 1000-1	1422A00918	2019/03/19	2020/03/18



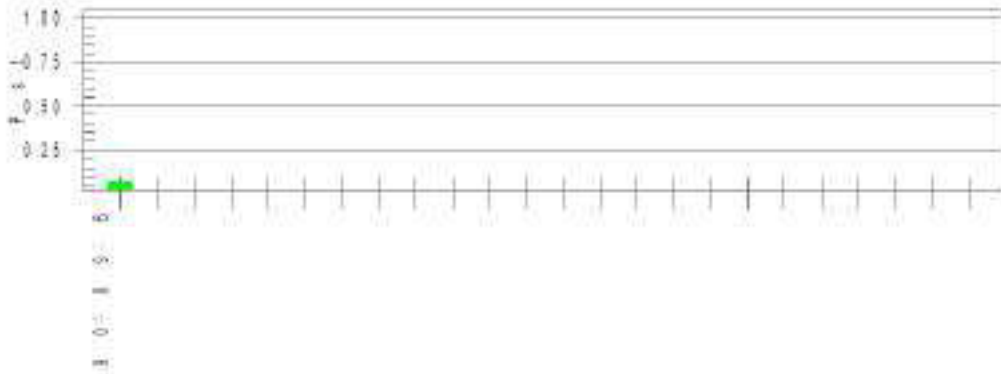
### 7.3. Test Result and Data

Basic Standard : EN 61000-3-3  
 Final Test Result : **PASS**  
 Test Data : Jan. 20, 2020

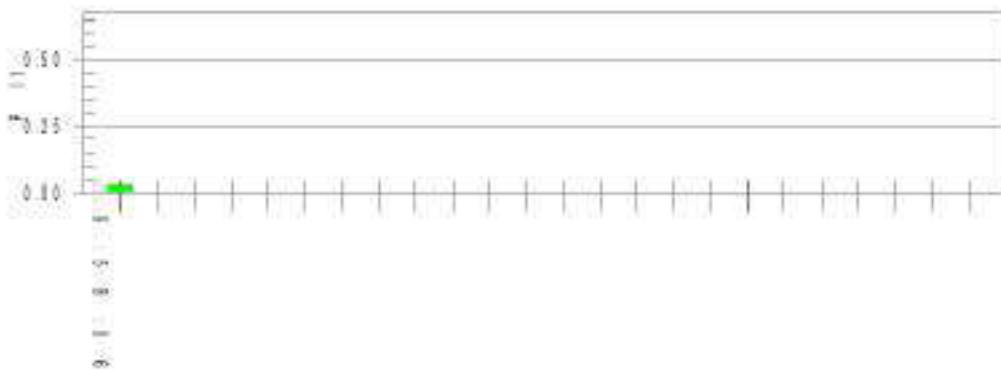
Temperature : 28°C  
 Relative Humidity : 55%  
 Test Engineer : Howard

Pst and limit line

European Limits



Plt and limit line



**Parameter values recorded during the test:**

Vrms at the end of test (Volt):	230.17		
T-max (mS):	0	Test limit (mS):	500.0 Pass
Highest dc (%):	0.00	Test limit (%):	3.30 Pass
Highest dmax (%):	0.00	Test limit (%):	4.00 Pass
Highest Pst (10 min. period):	0.064	Test limit:	1.000 Pass
Highest Plt (2 hr. period):	0.028	Test limit:	0.650 Pass





#### 7.4. Test Photographs





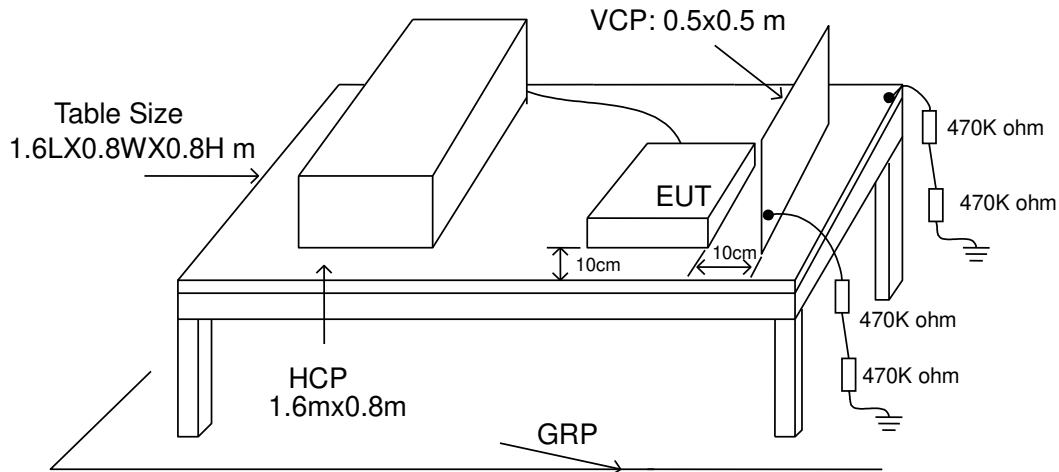


## 8. Electrostatic Discharge Immunity Test

### 8.1. Test Procedure

- a. In the case of air discharge testing the climatic conditions shall be within the following ranges:
  - ambient temperature: 15°C to 35°C;
  - relative humidity : 30 % to 60 %;
  - atmospheric pressure : 86 KPa (860 mbar) to 106 KPa (1060 mbar).
- b. Test programs and software shall be chosen so as to exercise all normal modes of operation of the EUT. The use of special exercising software is encouraged, but permitted only where it can be shown that the EUT is being comprehensively exercised.
- c. The test voltage shall be increased from the minimum to the selected test severity level, in order to determine any threshold of failure. The final severity level should not exceed the product specification value in order to avoid damage to the equipment.
- d. The test shall be performed with both air discharge and contact discharge. On reselected points at least 10 single discharges (in the most sensitive polarity) shall be applied on air discharge. On reselected points at least 10/25 single discharges (in the most sensitive polarity) shall be applied on contact discharge.
- e. For the time interval between successive single discharges an initial value of one second is recommended. Longer intervals may be necessary to determine whether a system failure has occurred.
- f. In the case of contact discharges, the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.
- g. In the case of painted surface covering a conducting substrate, the following procedure shall be adopted :
  - If the coating is not declared to be an insulating coating by the equipment manufacturer, then the pointed tip of the generator shall penetrate the coating so as to make contact with the conducting substrate.
  - Coating declared as insulating by the manufacturer shall only be submitted to the air discharge.
  - The contact discharge test shall not be applied to such surfaces.
- h. In the case of air discharges, the round discharge tip of the discharge electrode shall be approached as fast as possible (without causing mechanical damage) to touch the EUT . After each discharge, the ESD generator (discharge electrode) shall be removed from the EUT. The generator is then retriggered for a new single discharge. This procedure shall be repeated until the discharges are completed. In the case of an air discharge test, the discharge switch, which is used for contact discharge, shall be closed.

## 8.2. Test Setup for Tests Performed in Laboratory



The test setup consists of the test generator, EUT and auxiliary instrumentation necessary to perform DIRECT and INDIRECT application of discharges to the EUT as applicable, in the follow manner :

- a. Contact Discharge to the conductive surfaces and to coupling plane;
- b. Air Discharge at insulating surfaces.

The preferred test method is that of type tests performed in laboratories and the only accepted method of demonstrating conformance with this standard. The EUT was arranged as closely as possible to arrangement in final installed conditions.

A ground reference plane was provided on the floor of the test site. It was a metallic sheet (copper or aluminum) of 0.25 mm, minimum thickness; other metallic may be used but they shall have at least 0.65 mm thickness. In the CerpPASS Technology Corp., we provided 1 mm thickness stainless steel ground reference plane. The minimum size of the ground reference plane is 2.5 m x 2.5 m, the exact size depending on the dimensions of the EUT. It was connected to the protective grounding system.

The EUT was arranged and connected according to its functional requirements. A distance of 1m minimum was provided between the EUT and the wall of the lab. and any other metallic structure. In cases where this length exceeds the length necessary to apply the discharges to the selected points, the excess length shall, where possible, be placed non-inductively off the ground reference plane and shall not come closer than 0.2m to other conductive parts in the test setup.

Where the EUT is installed on a metal table, the table was connected to the reference plane via a cable with a 470k ohm resistor located at each end, to prevent a build-up of charge. The test setup was consist a wooden table, 0.8m high, standing on the ground reference plane. A HCP, 1.6 m x 0.8 m, was placed on the table. The EUT and cables was isolated from the HCP by an insulating support 0.5 mm thick. The VCP size, 0.5 m x 0.5 m.



### 8.3. Test Severity Levels

Contact Discharge		Air Discharge	
Level	Test Voltage (KV) of Contact discharge	Level	Test Voltage (KV) of Air Discharge
1	±2	1	±2
2	±4	2	±4
3	±6	3	±8
4	±8	4	±15
X	Specified	X	Specified

Remark: "X" is an open level.

### 8.4. Measurement Equipment

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
ESD Simulator	AMETEK	DITO	P1404129910	2019/04/08	2020/04/07

**8.5. Test Result and Data**

Test Mode	:	Mode 1 & Mode 2
Final Test Result	:	<b>PASS</b>
Pass Performance Criteria	:	A for air discharge $\pm 2 / \pm 4 / \pm 8$ KV B for air discharge $\pm 10 / \pm 15$ KV A for contact discharge $\pm 2 / \pm 4 / \pm 6 / \pm 8$ KV
Required Performance Criteria	:	B
Basic Standard	:	EN 61000-4-2
Product Standard	:	EN 55024
Test Voltage	:	$\pm 2 / \pm 4 / \pm 8 / \pm 10 / \pm 15$ KV for air discharge, $\pm 2 / \pm 4 / \pm 6 / \pm 8$ KV for contact discharge
Temperature	:	24°C
Relative Humidity	:	36 %
Atmospheric Pressure	:	1015 hPa
Test Date	:	Jan. 20, 2020
Test Engineer	:	Howard

Voltage	Contact Discharge							
	25 times / each							
	2 KV		4 KV		6 KV		8 KV	
Test Location	+	-	+	-	+	-	+	-
VCP Front	A	A	A	A	A	A	A	A
VCP Right	A	A	A	A	A	A	A	A
VCP Left	A	A	A	A	A	A	A	A
VCP Back	A	A	A	A	A	A	A	A
HCP Front	A	A	A	A	A	A	A	A
HCP Right	A	A	A	A	A	A	A	A
HCP Left	A	A	A	A	A	A	A	A
HCP Back	A	A	A	A	A	A	A	A

Voltage	Air Discharge									
	10 times / each									
	2 KV		4 KV		8 KV		10 KV		15 KV	
Test Location	+	-	+	-	+	-	+	-	+	-
1~31	A	A	A	A	A	A	A	A	B	B
32, 33, 36	A	A	A	A	A	A	B	B	B	B
34, 35, 37~44	A	A	A	A	A	A	A	A	A	A

Note: "A" means the EUT function is normal working during the test.

"B" means the EUT function is affected during the test, but it can be recovered automatically after a while.



Test Mode : Mode 3  
 Final Test Result : **PASS**  
 Pass Performance Criteria : A for air discharge  $\pm 2 / \pm 4 / \pm 8 / \pm 10$  KV KV  
 B for air discharge  $\pm 15$  KV  
 A for contact discharge  $\pm 2 / \pm 4$  KV  
 B for contact discharge  $\pm 6 / \pm 8$  KV  
 Required Performance Criteria : B  
 Basic Standard : EN 61000-4-2  
 Product Standard : EN 55024  
 Test Voltage :  $\pm 2 / \pm 4 / \pm 8 / \pm 10 / \pm 15$  KV for air discharge,  
 $\pm 2 / \pm 4 / \pm 6 / \pm 8$  KV for contact discharge  
 Temperature : 24°C  
 Relative Humidity : 36 %  
 Atmospheric Pressure : 1015 hPa  
 Test Date : Jan. 20, 2020  
 Test Engineer : Howard

Voltage	Contact Discharge							
	25 times / each							
	2 KV		4 KV		6 KV		8 KV	
Test Location	+	-	+	-	+	-	+	-
25, 26	A	A	A	A	A	A	B	B
30	A	A	A	A	A	A	A	A
32, 33	A	A	A	A	B	B	B	B

Voltage	Air Discharge									
	10 times / each									
	2 KV		4 KV		8 KV		10 KV		15 KV	
Test Location	+	-	+	-	+	-	+	-	+	-
27, 28	A	A	A	A	A	A	A	A	B	B

Note: "A" means the EUT function is normal working during the test.  
 "B" means the EUT function is affected during the test, but it can be recovered automatically after a while.











Test Mode : Mode 3  
 Final Test Result : **PASS**  
 Pass Performance Criteria : TT/TR  
 Basic Standard : EN 61000-4-2  
 Product Standard : EN 301 489-1/-52  
 Test Voltage :  $\pm 2 / \pm 4 / \pm 8 / \pm 10 / \pm 15$  KV for air discharge,  
 $\pm 2 / \pm 4 / \pm 6 / \pm 8$  KV for contact discharge  
 Temperature : 24°C  
 Relative Humidity : 36 %  
 Atmospheric Pressure : 1015 hPa  
 Test Date : Jan. 20, 2020  
 Test Engineer : Howard

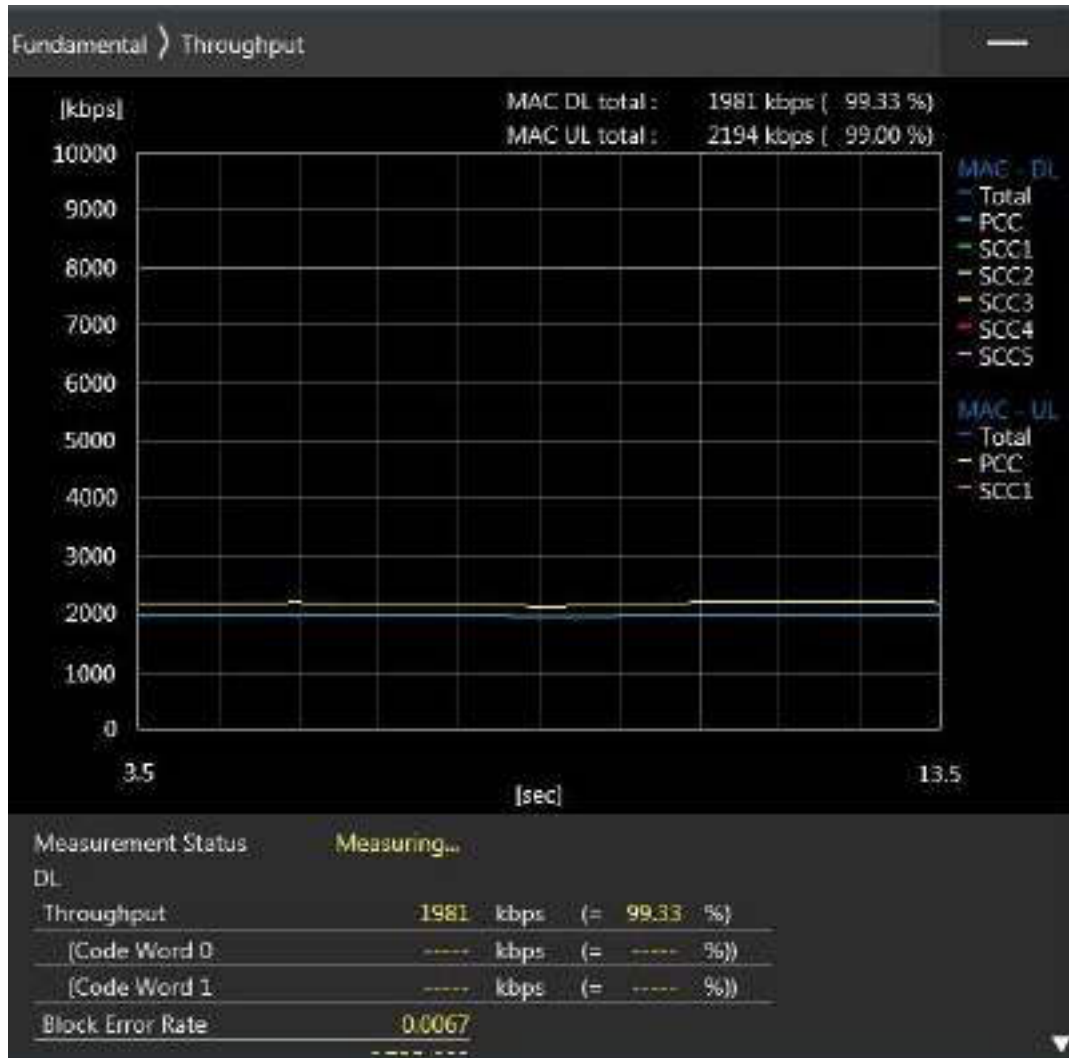
Voltage	Contact Discharge							
	10 times / each							
	2 KV		4 KV		6 KV		8 KV	
Test Location	+	-	+	-	+	-	+	-
25, 26	A	A	A	A	A	A	B	B
30	A	A	A	A	A	A	A	A
32, 33	A	A	A	A	B	B	B	B

Voltage	Air Discharge									
	10 times / each									
	2 KV		4 KV		8 KV		10 KV		15 KV	
Test Location	+	-	+	-	+	-	+	-	+	-
27, 28	A	A	A	A	A	A	A	A	B	B

Note: "A" means the EUT function is normal working during the test.  
 "B" means the EUT function is affected during the test, but it can be recovered automatically after a while.

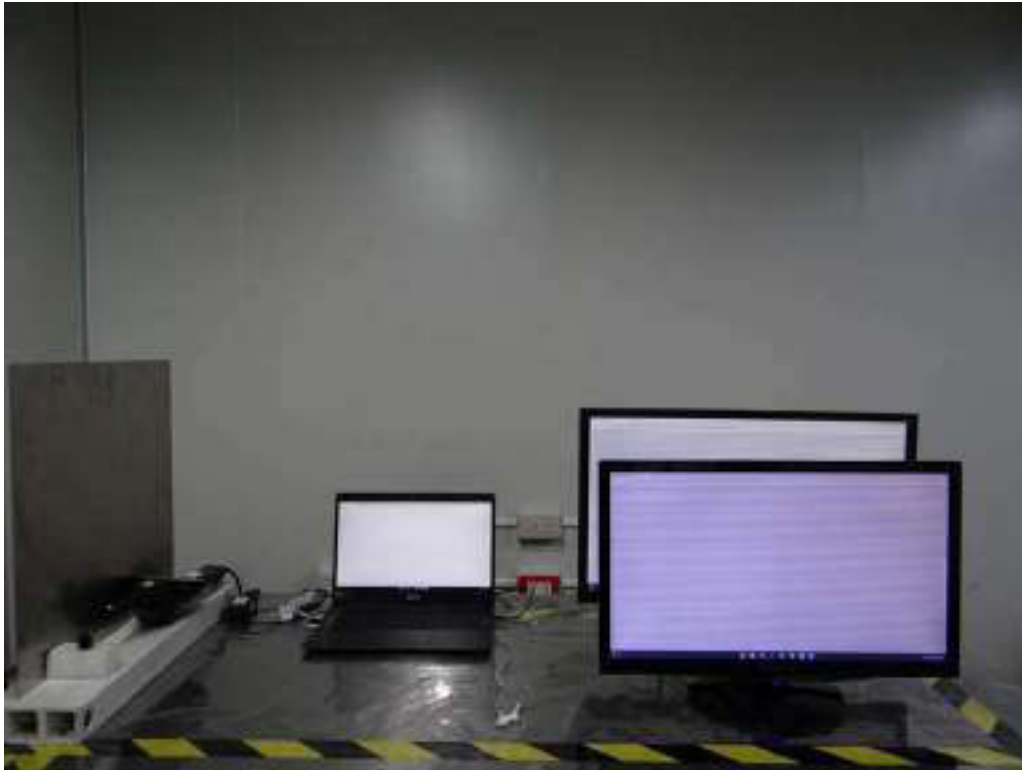


Final Test Result : **PASS**  
 Test Mode : Mode 2  
 Product Standard : EN 301 489-1/-52





### 8.6. Test Photographs

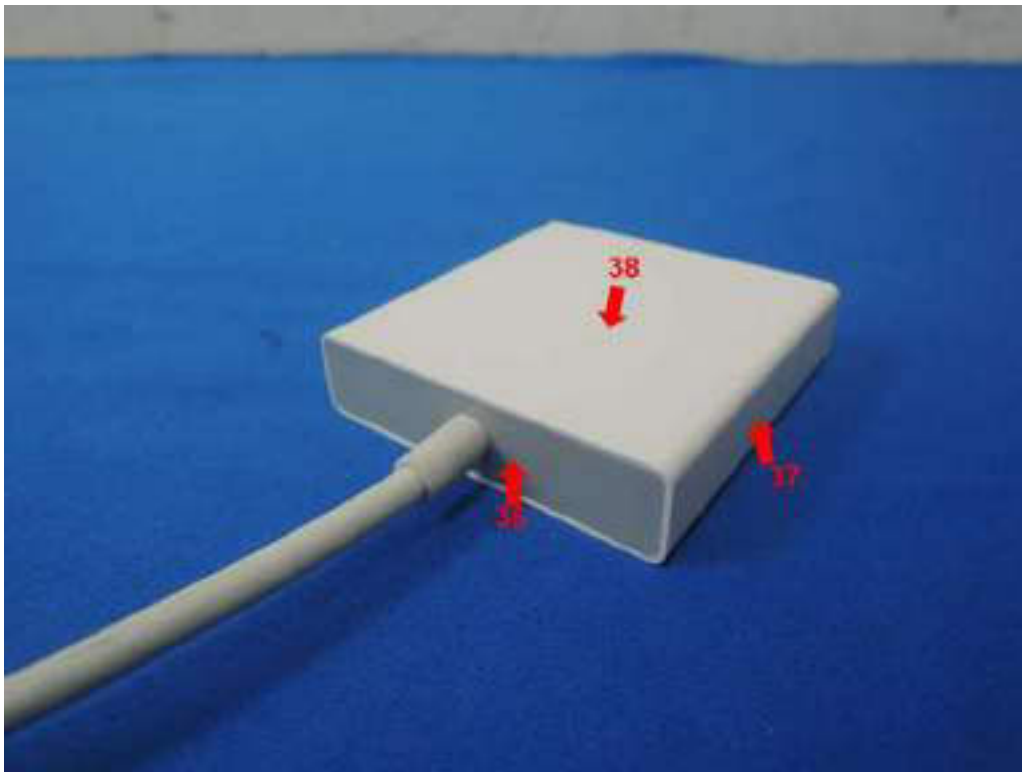




### 8.7. Test Points













## 9. Radio Frequency Electromagnetic Field Immunity Test

### 9.1. Test Procedure

For EN 55024

- a. The equipment to be tested is placed in the center of the enclosure on a wooden table. The equipment is then connected to power and signal leads according to pertinent installation instructions.
- b. The antenna which is enabling the complete frequency range of 80-1000 MHz is placed 3m away from the equipment. The required field strength is determined by placing the field strength meter(s) on top of or directly alongside the equipment under test and monitoring the field strength meter via a remote field strength indicator outside the enclosure while adjusting the continuous-wave to the applicable antennae.
- c. The test is normally performed with the antenna facing the most sensitive side of the EUT. The polarization of the field generated by the bucolical antenna necessitates testing each position twice, once with the antenna positioned vertically and again with the antenna positioned horizontally. The circular polarization of the field from the log-spiral antenna makes a change of position of the antenna unnecessary.
- d. At each of the above conditions, the frequency range is swept 80-1000 MHz, pausing to adjust the R.F. signal level or to switch oscillators and antenna. The rate of sweep is in the order of  $1.5 \cdot 10^{-3}$  decades/s. The sensitive frequencies or frequencies of dominant interest may be discretely analyzed.

For EN 301489

- a. The equipment to be tested is placed in the center of the enclosure on a wooden table. The equipment is then connected to power and signal leads according to pertinent installation instructions.
- b. The antenna which is enabling the complete frequency range of 80-6000 MHz is placed 3m away from the equipment. The required field strength is determined by placing the field strength meter(s) on top of or directly alongside the equipment under test and monitoring the field strength meter via a remote field strength indicator outside the enclosure while adjusting the continuous-wave to the applicable antennae.
- c. The test is normally performed with the antenna facing the most sensitive side of the EUT. The polarization of the field generated by the bucolical antenna necessitates testing each position twice, once with the antenna positioned vertically and again with the antenna positioned horizontally. The circular polarization of the field from the log-spiral antenna makes a change of position of the antenna unnecessary.
- d. At each of the above conditions, the frequency range is swept 80-6000 MHz, pausing to adjust the R.F. signal level or to switch oscillators and antenna. The rate of sweep is in the order of  $1.5 \cdot 10^{-3}$  decades/s. The sensitive frequencies or frequencies of dominant interest may be discretely analyzed.



### 9.2. Test Severity Levels

For EN 55024

Frequency Band	80-1000 MHz
Level	Test field strength (V/m)
1	1
2	3
3	10
X	Specified
Remark: "X" is an open class.	

For EN 301489

Frequency Band	80-6000 MHz
Level	Test field strength (V/m)
1	1
2	3
3	10
X	Specified
Remark: "X" is an open class.	

### 9.3. Measurement Equipment

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Signal Generator	KEYSIGHT	N5171B	MY53051326	2019/09/09	2020/09/08
Power Meter	Boonton	4231A-01	115902	N/A	N/A
Power Sensor	Boonton	51075A	36586	2019/06/18	2020/06/17
Antenna (80-1000MHz)	AR	ALT80M1G	348540	N/A	N/A
Amplifier (80-1000MHz)	METEK	80RF 1000-300	1077169	N/A	N/A
Log.-Per. Antenna (1-6GHz)	Schwarzbeck	STLP 9149	9149-483	N/A	N/A
Amplifier(1-6GHz)	METEK	AS0860B-50-50	1079233	N/A	N/A



9.4. Test Result and Data

Test Mode : Mode 1 & Mode 2  
 Final Test Result : **PASS**  
 Pass Performance Criteria : A  
 Required Performance Criteria : A  
 Basic Standard : EN 61000-4-3  
 Product Standard : EN 55024  
 Frequency Range : 80~1000 MHz  
 Temperature : 24 °C  
 Relative Humidity : 57 %  
 Atmospheric Pressure : 1020 hPa  
 Test Date : Jan. 20, 2020  
 Test Engineer : Howard

Modulation : AM 80% , 1KHz sine wave, Dwell time: 3 S				
Frequency Step Size : 1 % of preceding frequency value				
Frequency (MHz)	Antenna Polarization	Face	Field Strength (V/m)	Result
80~1000	Vertical	Front	3	A
80~1000	Vertical	Rear	3	A
80~1000	Vertical	Left	3	A
80~1000	Vertical	Right	3	A
80~1000	Horizontal	Front	3	A
80~1000	Horizontal	Rear	3	A
80~1000	Horizontal	Left	3	A
80~1000	Horizontal	Right	3	A

Note: "A" means the EUT function is normal working during the test.



Test Mode : Mode 1 & Mode 2  
 Final Test Result : **PASS**  
 Pass Performance Criteria : CT/CR  
 Basic Standard : EN 61000-4-3  
 Product Standard : EN 301 489-1/-17  
 Frequency Range : 80~6000MHz  
 Temperature : 24°C  
 Relative Humidity : 57 %  
 Atmospheric Pressure : 1020 hPa  
 Test Date : Jan. 20, 2020  
 Test Engineer : Howard

Modulation : AM 80% , 1KHz sine wave, Dwell time: 3 S				
Frequency Step Size : 1 % of preceding frequency value				
Frequency (MHz)	Antenna Polarization	Face	Field Strength (V/m)	Result
80~6000	Vertical	Front	3	A
80~6000	Vertical	Rear	3	A
80~6000	Vertical	Left	3	A
80~6000	Vertical	Right	3	A
80~6000	Horizontal	Front	3	A
80~6000	Horizontal	Rear	3	A
80~6000	Horizontal	Left	3	A
80~6000	Horizontal	Right	3	A

Note: "A" means the EUT function is normal working during the test.



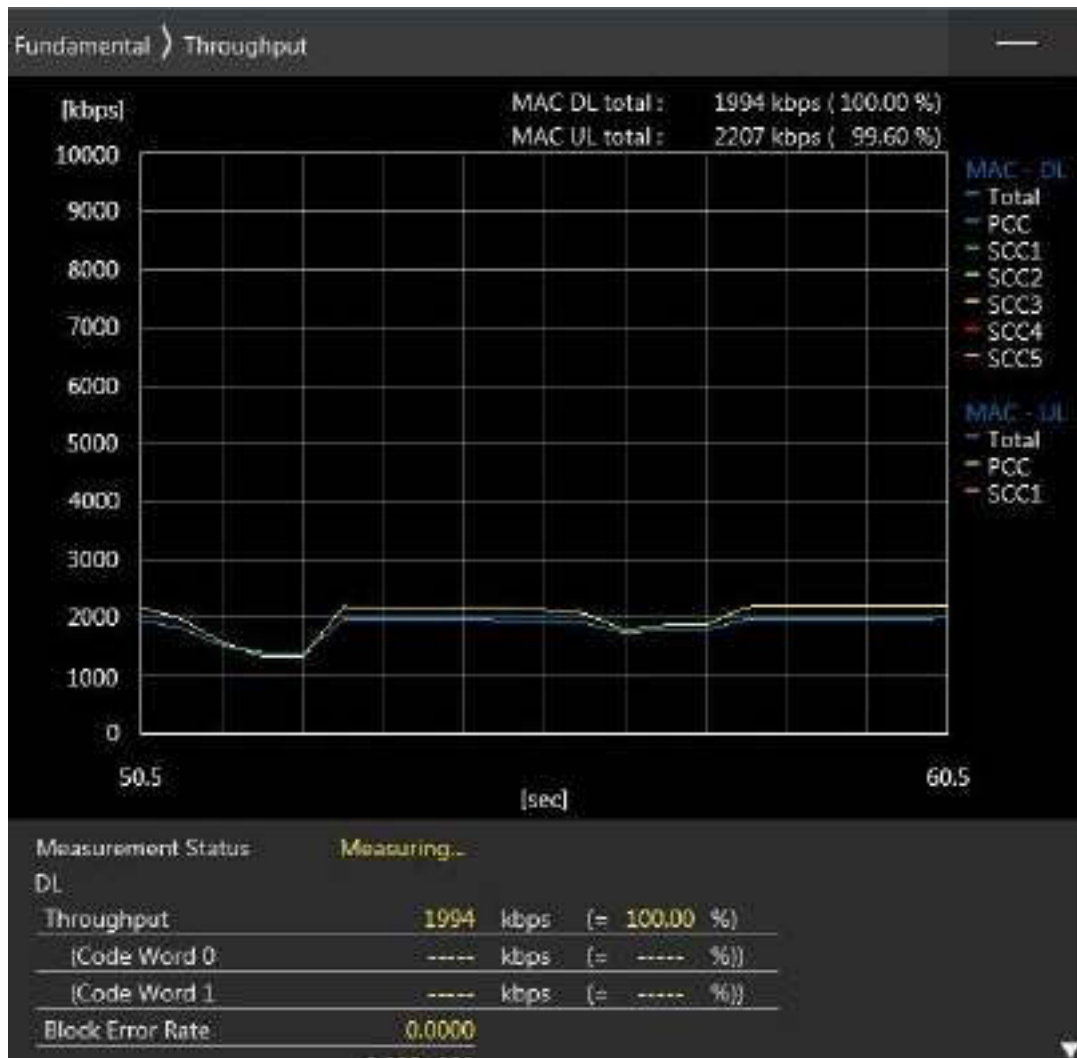
Test Mode : Mode 1 & Mode 2  
 Final Test Result : **PASS**  
 Pass Performance Criteria : CT/CR  
 Basic Standard : EN 61000-4-3  
 Product Standard : EN 301 489-1/-52  
 Frequency Range : 80~6000MHz  
 Temperature : 24°C  
 Relative Humidity : 57 %  
 Atmospheric Pressure : 1020 hPa  
 Test Date : Feb. 20, 2020  
 Test Engineer : Howard

Modulation : AM 80% , 1KHz sine wave, Dwell time: 3 S				
Frequency Step Size : 1 % of preceding frequency value				
Frequency (MHz)	Antenna Polarization	Face	Field Strength (V/m)	Result
80~6000	Vertical	Front	3	A
80~6000	Vertical	Rear	3	A
80~6000	Vertical	Left	3	A
80~6000	Vertical	Right	3	A
80~6000	Horizontal	Front	3	A
80~6000	Horizontal	Rear	3	A
80~6000	Horizontal	Left	3	A
80~6000	Horizontal	Right	3	A

Note: "A" means the EUT function is normal working during the test.



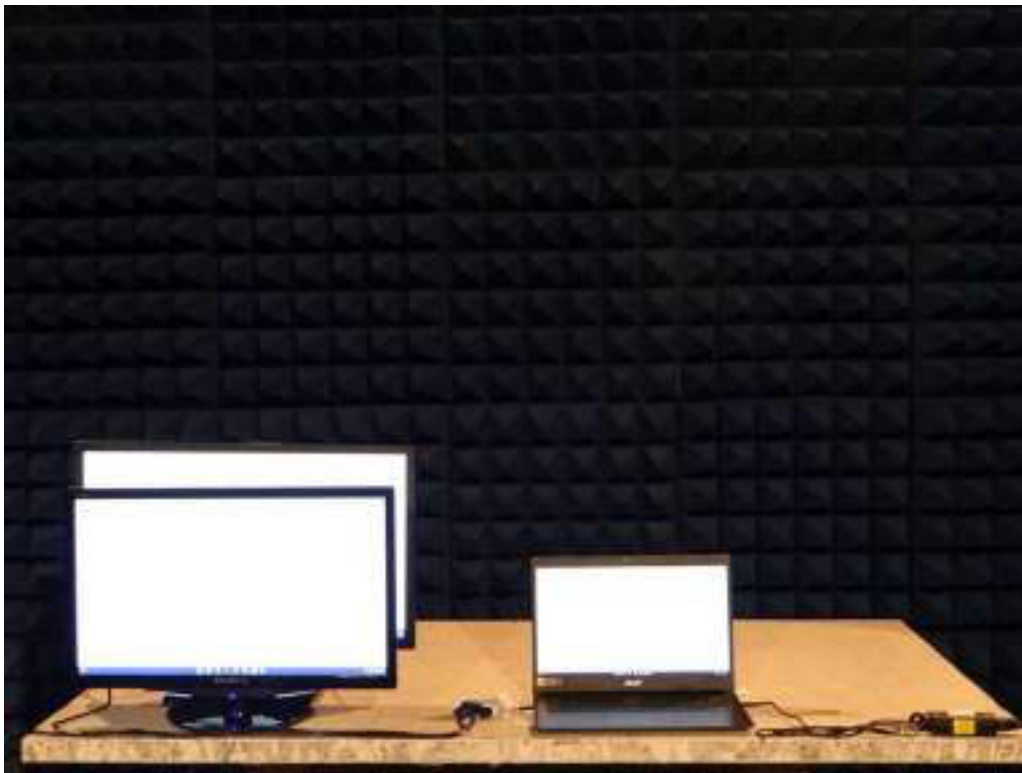
Final Test Result : **PASS**  
Test Mode : Mode 2  
Product Standard : EN 301 489-1/-52







### 9.5. Test Photographs





## 10. Electrical Fast Transient/ Burst Immunity Test

### 10.1. Test Procedure

- a. In order to minimize the effect of environmental parameters on test results, the climatic conditions when test is carrying out shall comply with the following requirements:
  - ambient temperature: 15°C to 35°C;
  - relative humidity : 45% to 75%;
  - Atmospheric pressure: 86 Kpa (860 mbar) to 106 Kpa (1060 mbar).
- b. In order to minimize the effect of environmental parameters on test results, the electromagnetic environment of the laboratory shall not influence the test results.
- c. The variety and diversity of equipment and systems to be tested make it difficult to establish general criteria for the evaluation of the effects of fast transients/bursts on equipment and systems.
- d. Test on Power Line:
  - The EFT/B-generator was located on the GRP.  
For floor standing equipment 1,0 m  
For table top equipment 0,5 m
  - The EFT/B-generator provides the ability to apply the test voltage in a non-symmetrical condition to the power supply input terminals of the EUT.
- e. Test on Communication Lines
  - The coupling clamp is composed of a clamp unit for housing the cable (length more than 3 m), and was placed on the GRP.
  - The coupling clamp provides the ability of coupling the fast transient/bursts to the cable under test.
- f. The test results may be classified on the basic of the operating conditions and the functional specification of the equipment under test, according to the following performance criteria :
  - Normal performance within the specification limits.
  - Temporary degradation or loss of function or performance which is self-recoverable.
  - Temporary degradation or loss of function or performance which requires operator intervention or system reset.
  - Degradation or loss of function which is not recoverable due to damage of equipment (components).

### 10.2. Test Severity Levels

The following test severity levels are recommended for the fast transient/burst test :

Open circuit output test voltage $\pm 10\%$		
Level	On Power Supply	On I/O signal, data and control line
1	0.5 KV	0.25 KV
2	1.0 KV	0.50 KV
3	2.0 KV	1.00 KV
4	4.0 KV	2.00 KV
X	Specified	Specified

Remark : “ X ” is an open level. The level is subject to negotiation between the user and manufacturer or is specified by the manufacturer.

### 10.3. Measurement Equipment

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
EMC Test System	Teseq	NSG3060	1385	2019/11/11	2020/11/10



### 10.4. Test Result and Data

Test Mode : Mode 1 & Mode 2  
 Final Test Result : **PASS**  
 Pass Performance Criteria : A  
 Required Performance Criteria : B  
 Basic Standard : EN 61000-4-4  
 Product Standard : EN 55024  
 Test Voltage : On Power Port-- ±0.5 KV, ±1.0 KV  
 Temperature : 28°C  
 Relative Humidity : 55 %  
 Atmospheric Pressure : 1020 hPa  
 Test Date : Jan. 20, 2020  
 Test Engineer : Howard

Pulse : 5/50 ns		Repetition Rate: 5 kHz			
Burst : 15ms/300ms		Test time : 1 min/each condition			
Voltage/ Mode/ Polarity/ Result/ Phase		0.5 kV		1.0 kV	
		+	-	+	-
Power Port	L	A	A	A	A
	N	A	A	A	A
	L-N	A	A	A	A
	PE	A	A	A	A
	L-PE	A	A	A	A
	N-PE	A	A	A	A
	L-N-PE	A	A	A	A

Note: "A" means the EUT function is normal working during the test.



Test Mode : Mode 1 & Mode 2  
 Final Test Result : **PASS**  
 Pass Performance Criteria : CT/CR  
 Basic Standard : EN 61000-4-4  
 Product Standard : EN 301 489-1/-17  
 Test Voltage : On Power Port--  $\pm 0.5$  KV,  $\pm 1.0$  KV  
 Temperature : 28°C  
 Relative Humidity : 55 %  
 Atmospheric Pressure : 1020 hPa  
 Test Date : Jan. 20, 2020  
 Test Engineer : Howard

Pulse : 5/50 ns		Repetition Rate: 5 kHz			
Burst : 15m/300ms		Test time : 1 min/each condition			
Voltage/ Mode/ Polarity/ Result/ Phase		<u>0.5 kV</u>		<u>1.0 kV</u>	
		+	-	+	-
Power Port	L	A	A	A	A
	N	A	A	A	A
	L-N	A	A	A	A
	PE	A	A	A	A
	L-PE	A	A	A	A
	N-PE	A	A	A	A
	L-N-PE	A	A	A	A

Note: "A" means the EUT function is normal working during the test.



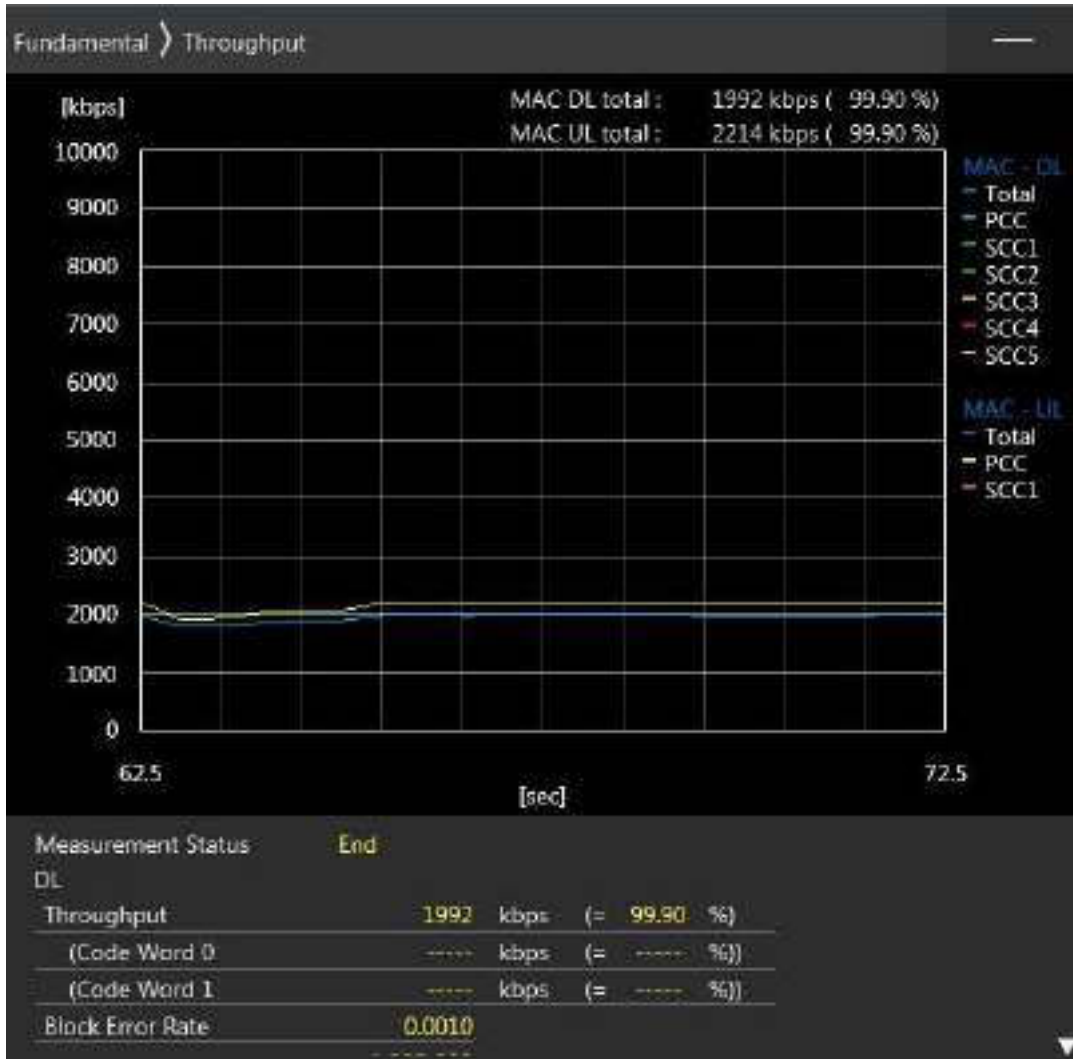
Test Mode : Mode 1 & Mode 2  
 Final Test Result : **PASS**  
 Pass Performance Criteria : CT/CR  
 Basic Standard : EN 61000-4-4  
 Product Standard : EN 301 489-1/-52  
 Test Voltage : On Power Port--  $\pm 0.5$  KV,  $\pm 1.0$  KV  
 Temperature : 28°C  
 Relative Humidity : 55 %  
 Atmospheric Pressure : 1020 hPa  
 Test Date : Feb. 20, 2020  
 Test Engineer : Howard

Pulse : 5/50 ns		Repetition Rate: 5 kHz			
Burst : 15m/300ms		Test time : 1 min/each condition			
Voltage/ Mode/ Polarity/ Result/ Phase		<u>0.5 kV</u>		<u>1.0 kV</u>	
		+	-	+	-
Power Port	L	A	A	A	A
	N	A	A	A	A
	L-N	A	A	A	A
	PE	A	A	A	A
	L-PE	A	A	A	A
	N-PE	A	A	A	A
	L-N-PE	A	A	A	A

Note: "A" means the EUT function is normal working during the test.



Final Test Result : **PASS**  
Test Mode : Mode 2  
Product Standard : EN 301 489-1/-52





### 10.5. Test Photographs







## 11. Surge Immunity Test

### 11.1. Test Procedure

- a. Climatic conditions  
The climatic conditions shall comply with the following requirements :
  - ambient temperature : 15 °C to 35 °C
  - relative humidity : 10 % to 75 %
  - atmospheric pressure : 86 kPa to 106 kPa ( 860 mbar to 1060 mbar )
- b. Electromagnetic conditions  
the electromagnetic environment of the laboratory shall not influence the test results.
- c. The test shall be performed according the test plan that shall specify the test set-up with
  - generator and other equipment utilized;
  - test level ( voltage/current );
  - generator source impedance;
  - internal or external generator trigger;
  - number of tests : at least five positive and five negative at the selected points;
  - repetition rate : maximum 1/min.
  - inputs and outputs to be tested;
  - representative operating conditions of the EUT;
  - sequence of application of the surge to the circuit;
  - phase angle in the case of AC. power supply;
  - actual installation conditions, for example :
    - AC : neutral earthed,
    - DC : ( + ) or ( - ) earthed to simulated the actual earthing conditions.
- d. If not otherwise specified the surges have to be applied synchronized to the voltage phase at the zero-crossing and the peak value of the AC. voltage wave ( positive and negative ).
- e. The surges have to be applied line to line and line(s) and earth. When testing line to earth, the test voltage has to be applied successively between each of the lines and earth, if there is no other specification.
- f. The test procedure shall also consider the non-linear current-voltage characteristics of the equipment under test. Therefore the test voltage has to be increased by steps up to the test level specified in the product standard or test plan.
- g. All lower levels including the selected test level shall be satisfied. For testing the secondary protection, the output voltage of the generator shall be increased up to the worst-case voltage breakdown level ( let-through level ) of the primary protection.
- h. If the actual operating signal sources are not available, that may be simulated. Under no circumstances may the test level exceed the product specification. The test shall be carried out according to a test plan.
- i. To find all critical points of the duty cycle of the equipment, a sufficient number of positive and negative test pulses shall be applied. For acceptance test previously unstressed equipment shall be used to the protection devices shall be replaced.

### 11.2. Test Severity Level

Level	Open-circuit test voltage (kV)	
	Line-to-line	Line-to-ground <sup>b</sup>
1	---	0.5
2	0.5	1.0
3	1.0	2.0
4	2.0	4.0
X <sup>a</sup>	Special	Special

<sup>a</sup> "X" and be any level, above, below or in between the others. The level shall be specified in the dedicated equipment specification.

<sup>b</sup> For symmetrical interconnection lines the test can be applied to multiple lines simultaneously with respect to ground, i.e. "lines to ground".



**11.3. Measurement Equipment**

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
EMC Test System	Teseq	NSG3060	1385	2019/11/11	2020/11/10

**11.4. Test Result and Data**

Test Mode : Mode 1 & Mode 2  
 Final Test Result : **PASS**  
 Pass Performance Criteria : A  
 Required Performance Criteria : B  
 Basic Standard : EN 61000-4-5  
 Product Standard : EN 55024  
 Test Voltage : Power Port --  $\pm 0.5$  kV,  $\pm 1.0$  kV,  $\pm 2.0$  kV  
 Temperature : 28°C  
 Relative Humidity : 55 %  
 Atmospheric Pressure : 1020 hPa  
 Test Date : Jan. 20, 2020  
 Test Engineer : Howard

**Power Port**

Waveform : 1.2/50 $\mu$ s(8/20 $\mu$ s)		Repetition rate : 60 sec		Time : 5 time/each condition		
Phase Voltage / Mode / Polarity / Result		0°	90°	180°	270°	
0.5 kV, 1.0kV	L-N	+	A	A	A	A
		-	A	A	A	A
0.5 kV, 1.0kV, 2.0kV	L-PE, N-PE	+	A	A	A	A
		-	A	A	A	A

Note: "A" means the EUT function is normal working during the test.



Test Mode : Mode 1 & Mode 2  
 Final Test Result : **PASS**  
 Pass Performance Criteria : CT/CR  
 Basic Standard : EN 61000-4-5  
 Product Standard : EN 301 489-1/-17  
 Test Voltage : Power Port --  $\pm 0.5$  kV,  $\pm 1.0$  kV,  $\pm 2.0$  kV  
 Temperature : 28°C  
 Relative Humidity : 55 %  
 Atmospheric Pressure : 1020 hPa  
 Test Date : Jan. 20, 2020  
 Test Engineer : Howard

Waveform : 1.2/50 $\mu$ s(8/20 $\mu$ s)			Repetition rate : 60 sec		Time : 5 time/each condition	
Phase Voltage / Mode / Polarity / Result			0°	90°	180°	270°
0.5 kV, 1.0kV	L-N	+	A	A	A	A
		-	A	A	A	A
0.5 kV, 1.0kV, 2.0kV	L-PE, N-PE	+	A	A	A	A
		-	A	A	A	A

Note: "A" means the EUT function is normal working during the test.



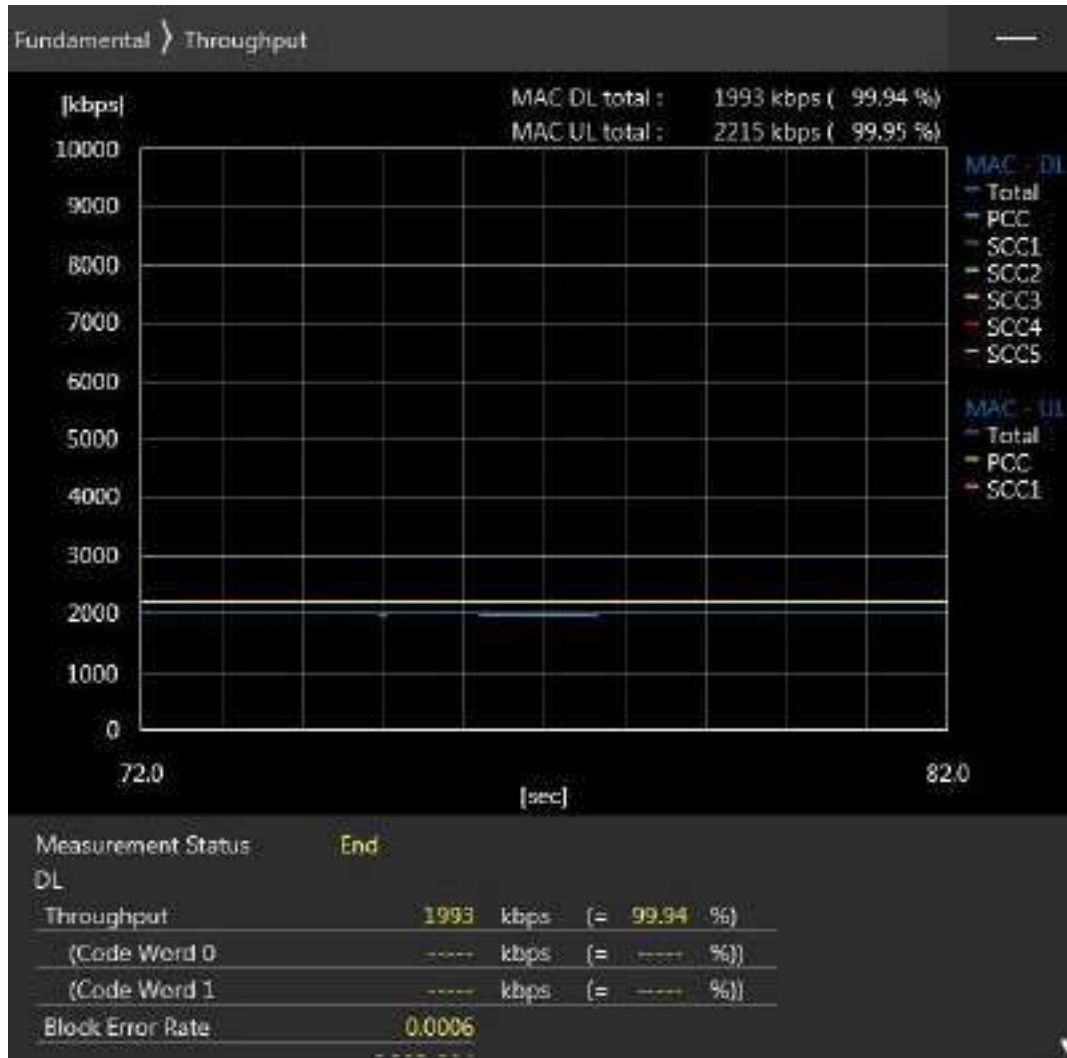
Test Mode : Mode 1 & Mode 2  
 Final Test Result : **PASS**  
 Pass Performance Criteria : CT/CR  
 Basic Standard : EN 61000-4-5  
 Product Standard : EN 301 489-1/-52  
 Test Voltage : Power Port --  $\pm 0.5$  kV,  $\pm 1.0$  kV,  $\pm 2.0$  kV  
 Temperature : 28°C  
 Relative Humidity : 55 %  
 Atmospheric Pressure : 1020 hPa  
 Test Date : Feb. 20, 2020  
 Test Engineer : Howard

Waveform : 1.2/50 $\mu$ s(8/20 $\mu$ s)		Repetition rate : 60 sec		Time : 5 time/each condition		
Phase Voltage / Mode / Polarity / Result			0°	90°	180°	270°
0.5 kV, 1.0kV	L-N	+	A	A	A	A
		-	A	A	A	A
0.5 kV, 1.0kV, 2.0kV	L-PE, N-PE	+	A	A	A	A
		-	A	A	A	A

Note:" A" means the EUT function is normal working during the test.



Final Test Result : **PASS**  
 Test Mode : Mode 2  
 Product Standard : EN 301 489-1/-52





### 11.5. Test Photographs





## 12. Conduction Disturbances Induced by Radio-Frequency Fields

### 12.1. Test Procedure

- a. The EUT shall be operated within its intended climatic conditions. The temperature and relative humidity should be recorded.
- b. This test method test can be performed without using a sell shielded enclosure. This is because the disturbance levels applied and the geometry of the setups are not likely to radiated a high amount of energy, especially at the lower frequencies. If under certain circumstances the radiated energy is too high, a shielded enclosure has to be used.
- c. The test shall be performed with the test generator connected to each of the coupling and decoupling devices in turn while the other non-excited RF-input ports of the coupling devices are terminated by a 50 ohm load resistor.
- d. The frequency range is swept from 150 KHz to 80 MHz, using the signal levels established during the setting process, and with the disturbance signal 80% amplitude modulated with a 1KHz sign wave, pausing to adjust the RF-signal level or to switch coupling devices as necessary. The rate of sweep shall no exceed  $1.5 \times 10^{-3}$  decades/s. Where the frequency is swept incrementally, the step size shall no exceed 1% of the start and thereafter 1% of the preceding frequency value.
- e. The dwell time at each frequency shall not be less than the time necessary for the EUT to be exercised, and able to respond. Sensitive frequencies e.g. clock frequency (ies) and harmonics or frequencies of dominant interest shall be analyzed separately.
- f. An alternative test procedure may be adopted, wherein the frequency range is swept incrementally, with a step size not exceeding 4% of the start ad thereafter 4% of the preceding frequency value. The test level should be at least twice the value of the specified test level.
- g. In cases of dispute, the test procedure using a step size not exceeding 1% of the start and thereafter 1% of preceding frequency value shall take precedence.
- h. Attempts should be made to fully exercise the EUT during testing, and to fully interrogate all exercise modes selected for susceptibility.
- i. The use of special exercising programs is recommended.
- j. Testing shall be performed according to a Test Plan, which shall be included in the test report.
- k. It may be necessary to carry out some investigatory testing in order to establish some aspects of the test plan.

### 12.2. Test Severity Levels

Level	Voltage Level ( e.m.f. )
1	1 V
2	3 V
3	10 V
x	Specified
NOTE - x is an open class. This level can be specified in the product specification.	

### 12.3. Measurement Equipment

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
CDN (M2+M3)	Schaffner	CDN M016	25111	2019/09/12	2020/09/11
CS Test system	Teseq GmbH	NSG 4070B-35	41159	2019/09/05	2020/09/04



### 12.4. Test Result and Data

Test Mode : Mode 1 & Mode 2  
 Final Test Result : **PASS**  
 Pass Performance Criteria : A  
 Required Performance Criteria : A  
 Basic Standard : EN 61000-4-6  
 Product Standard : EN 55024  
 Coupling Mode : CDN-(M3) for power port  
 Temperature : 24°C  
 Relative Humidity : 57 %  
 Atmospheric Pressure : 1020 hPa  
 Test Date : Jan. 20, 2020  
 Test Engineer : Howard

Frequency : 0.15~80MHz, Modulation : AM 80%,1KHz sine wave, Dwell time: 3s Frequency Step Size : 1 % of preceding frequency value			
Frequency(MHz)	Test Mode	Voltage(V)	Result
0.15 ~ 80	Power (M3)	3	A

Note: "A" Means the EUT function is normal working during the test.





Test Mode : Mode 1 & Mode 2  
 Final Test Result : **PASS**  
 Pass Performance Criteria : CT/CR  
 Basic Standard : EN 61000-4-6  
 Product Standard : EN 301 489-1/-17  
 Coupling mode : CDN-(M3) for power port  
 Temperature : 24°C  
 Relative Humidity : 57 %  
 Atmospheric Pressure : 1020 hPa  
 Test Date : Jan. 20, 2020  
 Test Engineer : Howard

Frequency : 0.15~80MHz, Modulation : AM 80%,1KHz sine wave, Dwell time: 3s Frequency Step Size : 1 % of preceding frequency value			
Frequency(MHz)	Test Mode	Voltage(V)	Result
0.15 ~ 80	Power (M3)	3	A

Note: "A" Means the EUT function is normal working during the test.

Test Mode : Mode 1 & Mode 2  
 Final Test Result : **PASS**  
 Pass Performance Criteria : CT/CR  
 Basic Standard : EN 61000-4-6  
 Product Standard : EN 301 489-1/-52  
 Coupling mode : CDN-(M3) for power port  
 Temperature : 24°C  
 Relative Humidity : 57 %  
 Atmospheric Pressure : 1020 hPa  
 Test Date : Feb. 20, 2020  
 Test Engineer : Howard

Frequency : 0.15~80MHz, Modulation : AM 80%,1KHz sine wave, Dwell time: 3s Frequency Step Size : 1 % of preceding frequency value			
Frequency(MHz)	Test Mode	Voltage(V)	Result
0.15 ~ 80	Power (M3)	3	A

Note: "A" Means the EUT function is normal working during the test.



Final Test Result : **PASS**  
 Test Mode : Mode 2  
 Product Standard : EN 301 489-1/-52



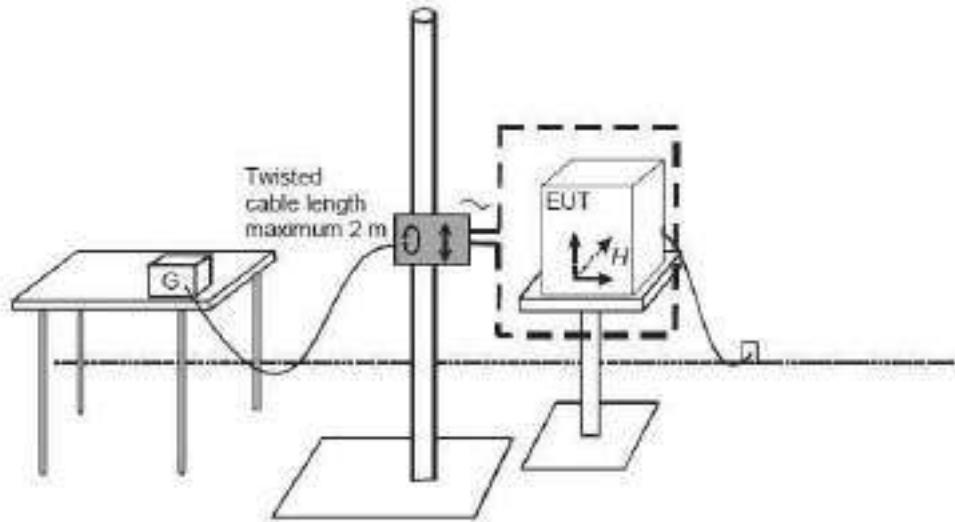


## 12.5. Test Photographs



### 13. Power Frequency Magnetic Field Immunity Test

#### 13.1. Test Setup



#### 13.2. Test Severity Levels

Level	Magnetic field strength (A/m)
1	1
2	3
3	10
4	30
5	100
X <sup>1)</sup>	special

NOTE 1 "X" is an open level. This level can be given in the product specification.

#### 13.3. Measurement Equipment

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Magnetic Field Generator	KeyTek	F-1000-4-8-G-125A	03019	2019/09/09	2020/09/08
		F-1000-4-8/9/10-L-1M	03016		



### 13.4. Test Result and Data

Test Mode : Mode 1 & Mode 2  
Final Test Result : **PASS**  
Pass Performance Criteria : A  
Required Performance Criteria : A  
Basic Standard : EN 61000-4-8  
Product Standard : EN 55024  
Temperature : 24 °C  
Relative Humidity : 57 %  
Atmospheric Pressure : 1020 hPa  
Test Date : Jan. 20, 2020  
Test Engineer : Howard

Power Frequency Magnetic Field : <u>50</u> Hz, <u>1</u> A/m		
Coil Orientation	Testing duration	Results
X-axis	1.0 Min	A
Y-axis	1.0 Min	A
Z-axis	1.0 Min	A

Note: "A" Mean the EUT function is normal working during the test.



### 13.5. Test Photographs





## 14. Voltage Dips and Voltage Interruptions Immunity Test Setup

### 14.1. Test Conditions

For EN 55024:

1. Source voltage and frequency: AC 100/230/240V / 50Hz, Single phase.
2. Test of interval : 10 sec.
3. Level and duration : Sequence of 3 dips/interrupts.
4. Voltage rise (and fall) time : 1 ~ 5  $\mu$ s.
5. Test severity :

Test mode	Test level UT %	Durations (period)
Voltage interruptions	>95%	250
Voltage dips	30%	25
	>95%	0.5

For EN 301489:

1. Source voltage and frequency: AC 230V / 50Hz, Single phase.
2. Test of interval: 10 sec.
3. Level and duration: Sequence of 3 dips/interrupts.
4. Voltage rise (and fall) time: 1 ~ 5  $\mu$ s.
5. Test severity:

Test mode	Test level Residual %	Durations (period)
Voltage dips	0%	0.5
	0%	1
	30%	25
Voltage interruptions	0%	250

### 14.2. Measurement Equipment

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
EMC Test System	Teseq	NSG3060	1385	2019/11/11	2020/11/10



### 14.3. Test Result and Data

Test Mode : Mode 1 & Mode 2  
 Final Test Result : **PASS**  
 Pass Performance Criteria : B for voltage interruption, A for voltage dips  
 Required Performance Criteria : C for voltage interruption, B/C for voltage dips  
 Basic Standard : EN 61000-4-11  
 Product Standard : EN 55024  
 Temperature : 28°C  
 Relative Humidity : 55 %  
 Atmospheric Pressure : 1020 hPa  
 Test Date : Jan. 20, 2020  
 Test Engineer : Howard

Voltage(UT): AC <u>100/230/240</u> V <u>50</u> Hz Interval(s) : <u>10s</u> Times : <u>3</u>				
Test mode	Test level UT %	Durations (period)	Phase / Result	
			0°	180°
Voltage Interruptions	>95%	250	B	B
Voltage Dips	30%	25	A	A
	>95%	0.5	A	A

Note: "A" means the EUT function is normal working during the test.

"B" means the EUT function is affect during the test, but it can be recover automatically, after a while.





Test Mode : Mode 1 & Mode 2  
 Final Test Result : **PASS**  
 Pass Performance Criteria : TT/TR  
 Basic Standard : EN 61000-4-11  
 Product Standard : EN 301 489-1/-17  
 Temperature : 28°C  
 Relative Humidity : 55 %  
 Atmospheric Pressure : 1020 hPa  
 Test Date : Jan. 20, 2020  
 Test Engineer : Howard

Voltage(UT): AC <u>230</u> V <u>50</u> Hz Interval(s) : <u>10s</u> Times : <u>3</u>									
Test mode	Test level Residual %	Durations (period)	Phase / Result						
			45°	90°	135°	180°	225°	270°	315°
Voltage dips	0%	0.5	A	A	A	A	A	A	A
	0%	1	A	A	A	A	A	A	A
	30%	25	A	A	A	A	A	A	A
Voltage interruptions	0%	250	B	B	B	B	B	B	B

Note: "A" means the EUT function is normal working during the test.

"B" means the EUT function is affect during the test, but it can be recover automatically, after a while.



Test Mode : Mode 1 & Mode 2  
 Final Test Result : **PASS**  
 Pass Performance Criteria : TT/TR  
 Basic Standard : EN 61000-4-11  
 Product Standard : EN 301 489-1/-52  
 Temperature : 28°C  
 Relative Humidity : 55 %  
 Atmospheric Pressure : 1020 hPa  
 Test Date : Feb. 20, 2020  
 Test Engineer : Howard

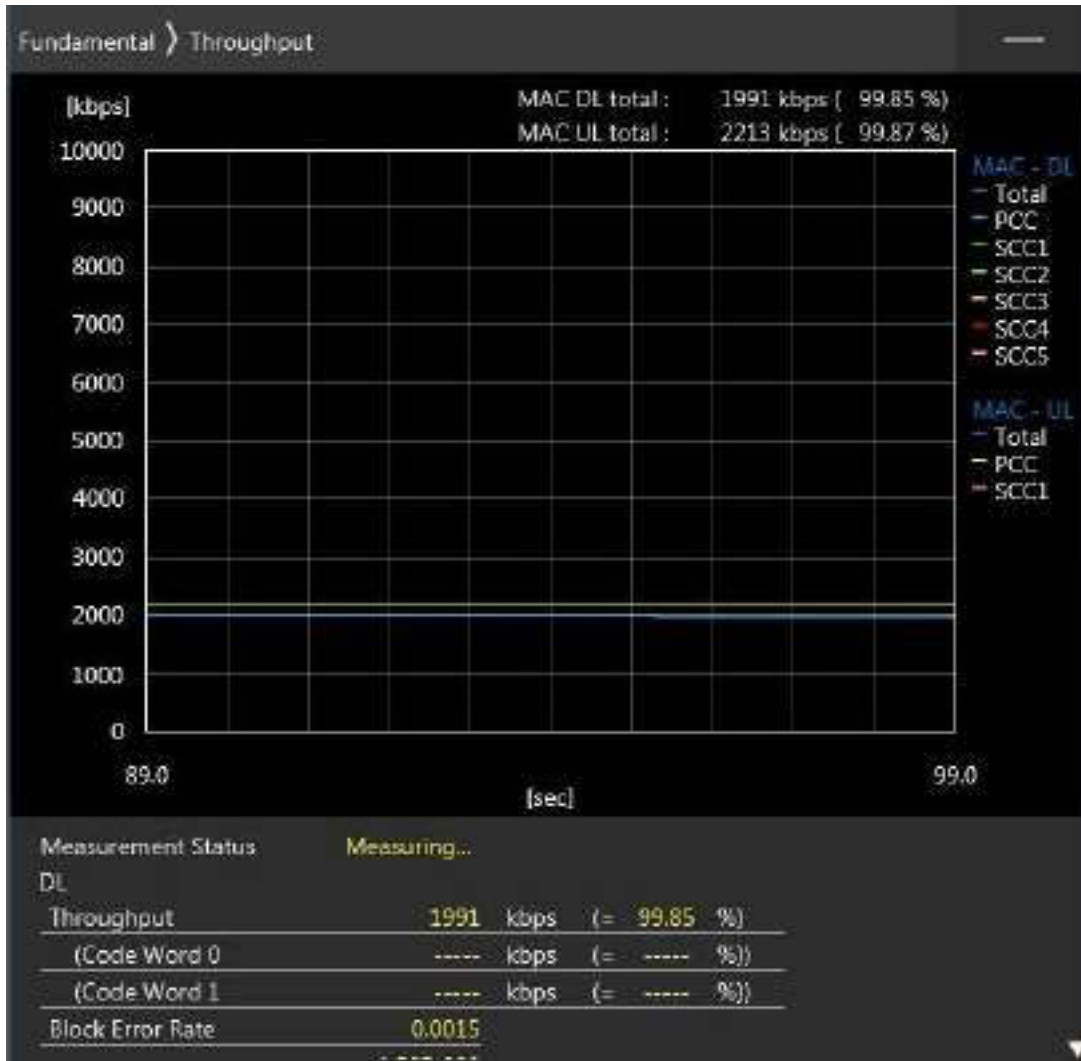
Voltage(UT): AC <u>230</u> V <u>50</u> Hz Interval(s) : <u>10s</u> Times : <u>3</u>									
Test mode	Test level Residual %	Durations (period)	Phase / Result						
			45°	90°	135°	180°	225°	270°	315°
Voltage dips	0%	0.5	A	A	A	A	A	A	A
	0%	1	A	A	A	A	A	A	A
	30%	25	A	A	A	A	A	A	A
Voltage interruptions	0%	250	B	B	B	B	B	B	B

Note: "A" means the EUT function is normal working during the test.

"B" means the EUT function is affect during the test, but it can be recover automatically, after a while.



Final Test Result : **PASS**  
 Test Mode : Mode 2  
 Product Standard : EN 301 489-1/-52





#### 14.4. Test Photographs





### Appendix A. Photographs of EUT



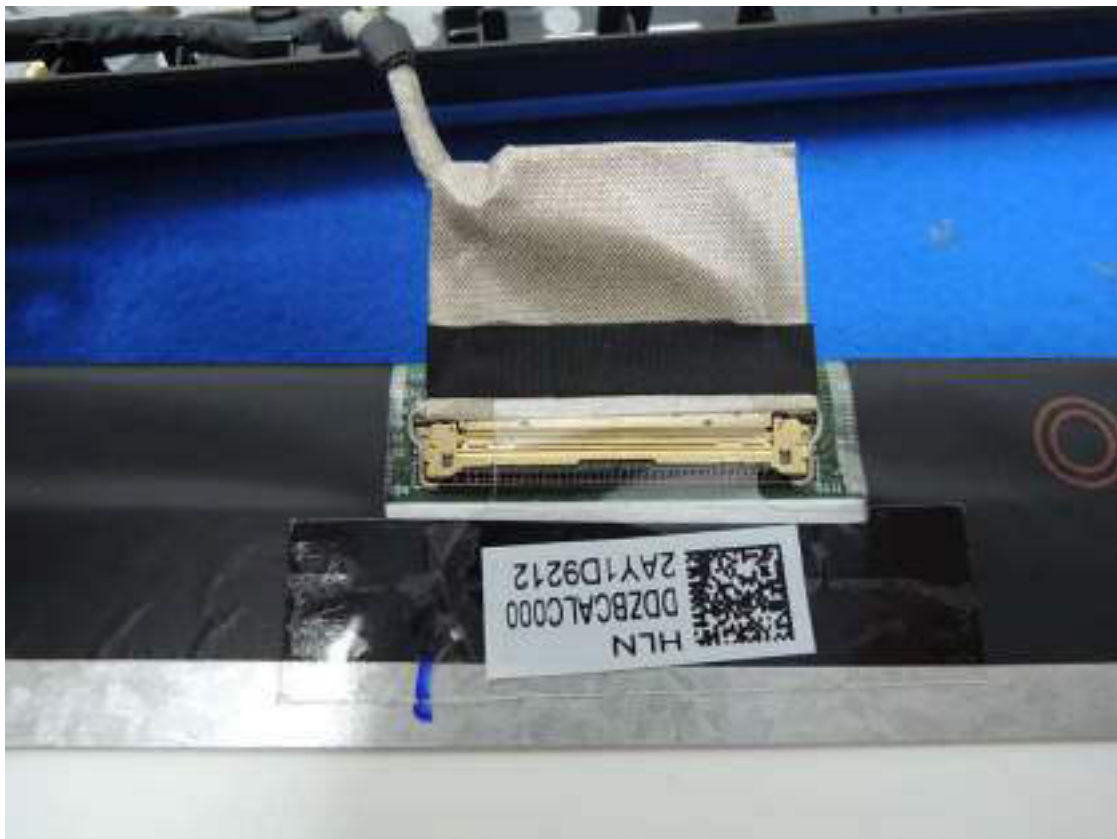


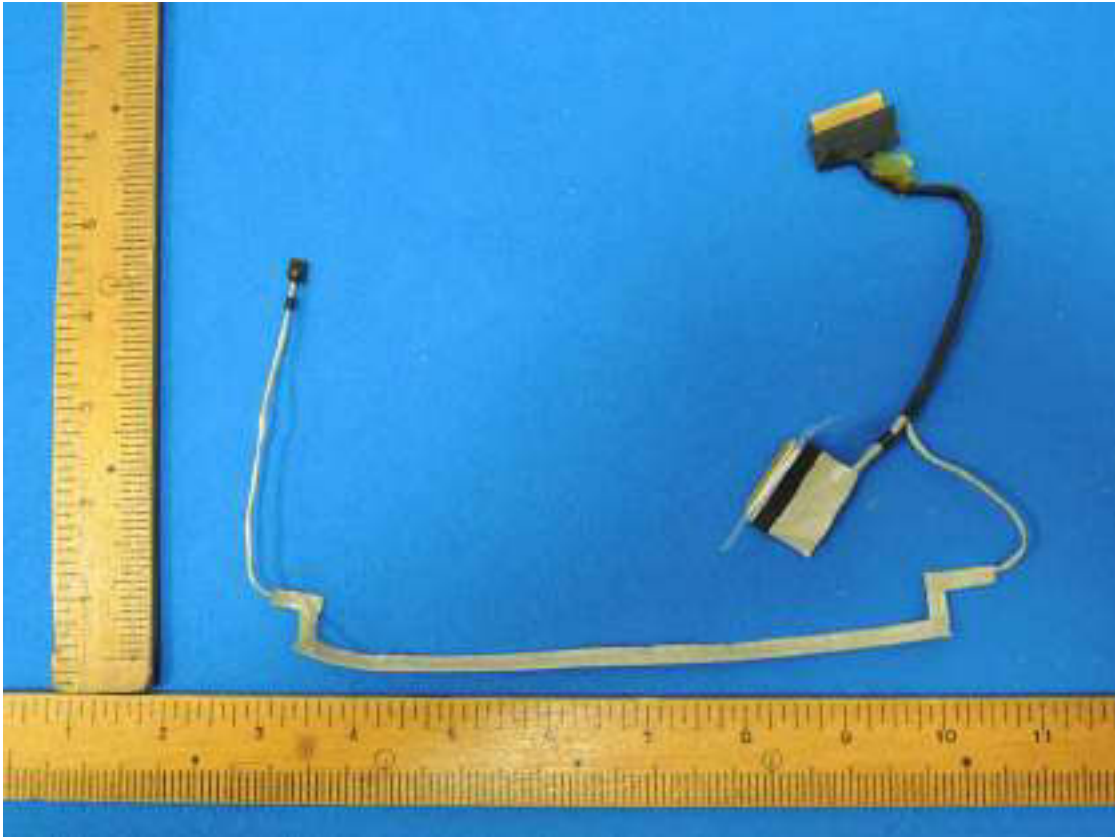














M/B: DA0ZBCMB6B0





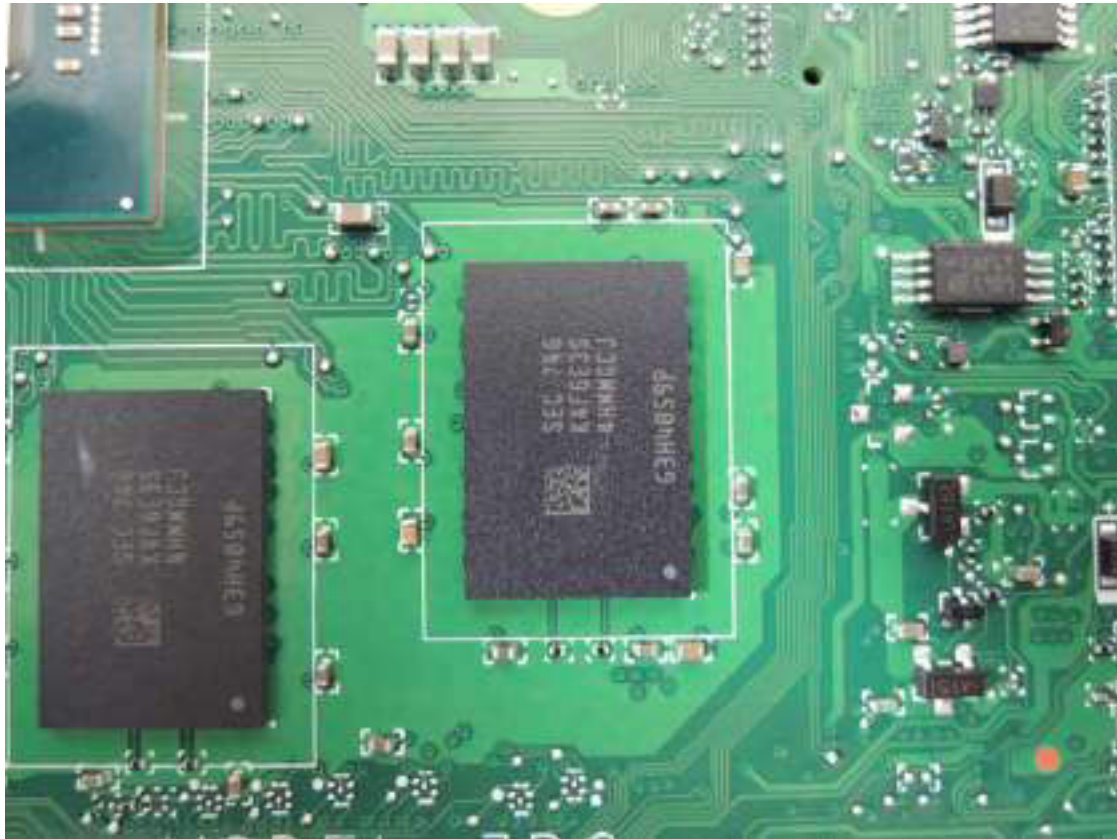


**CPU**





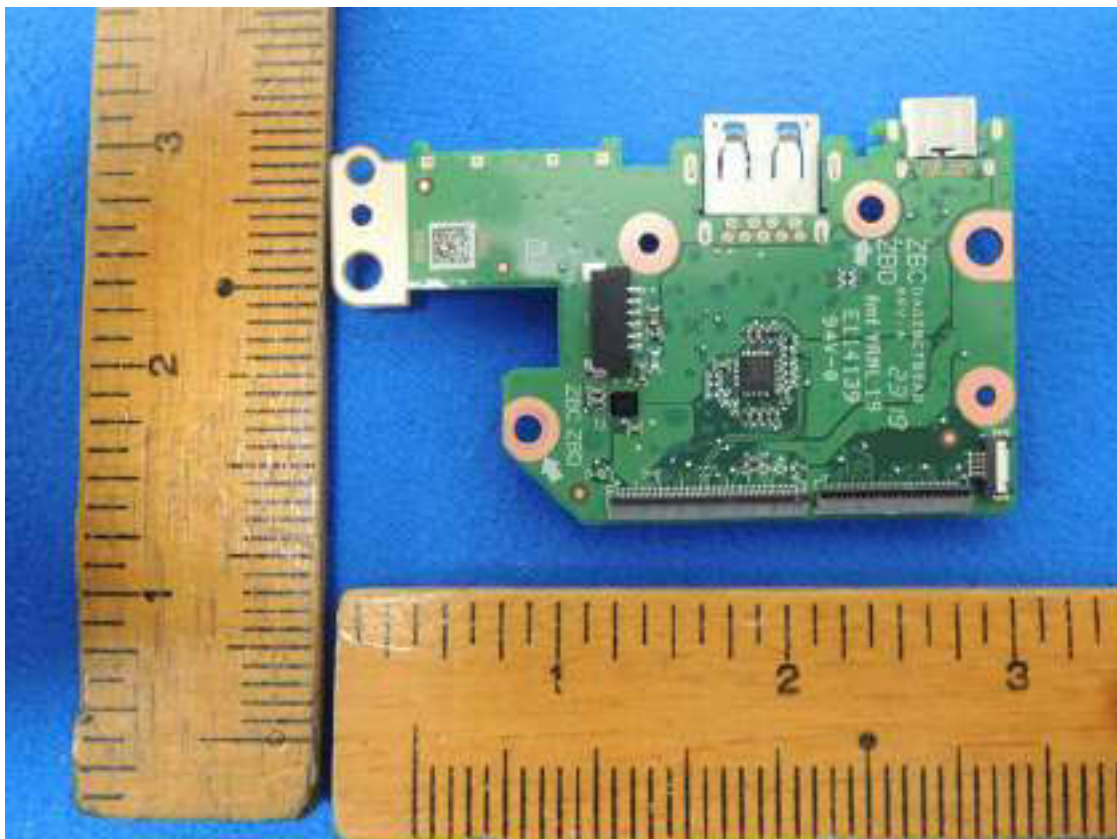
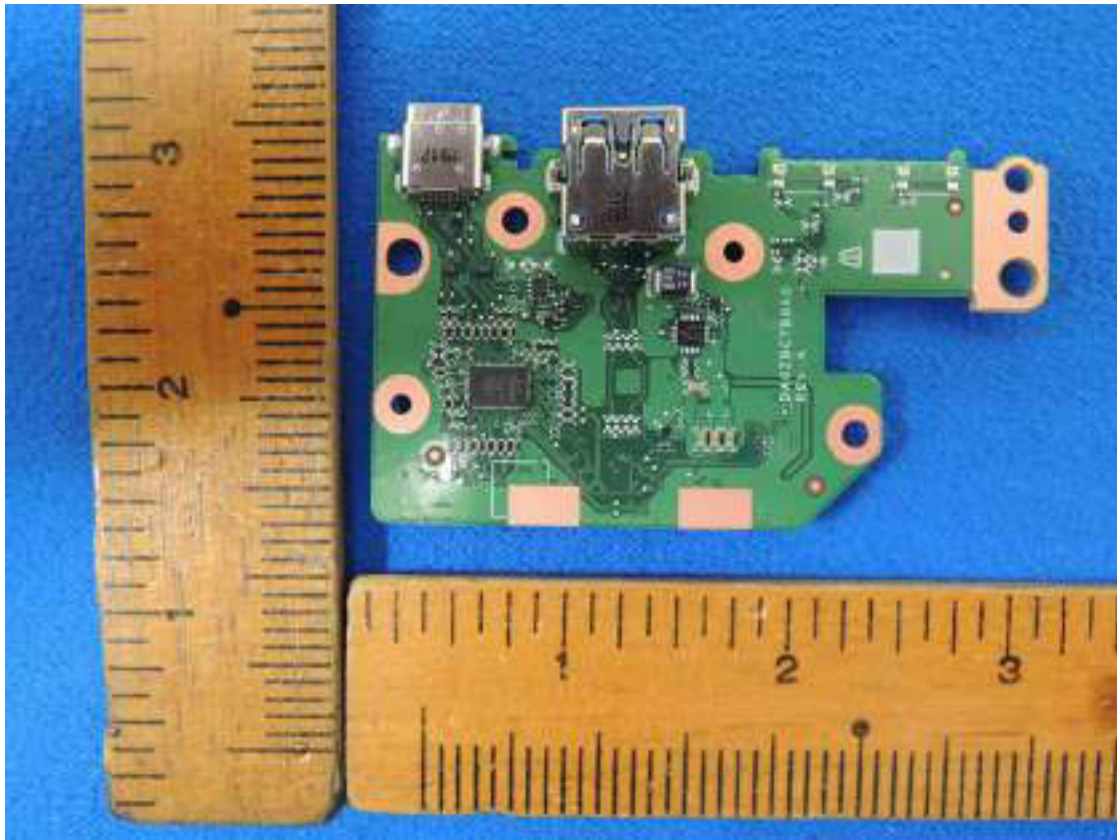
**Memory**

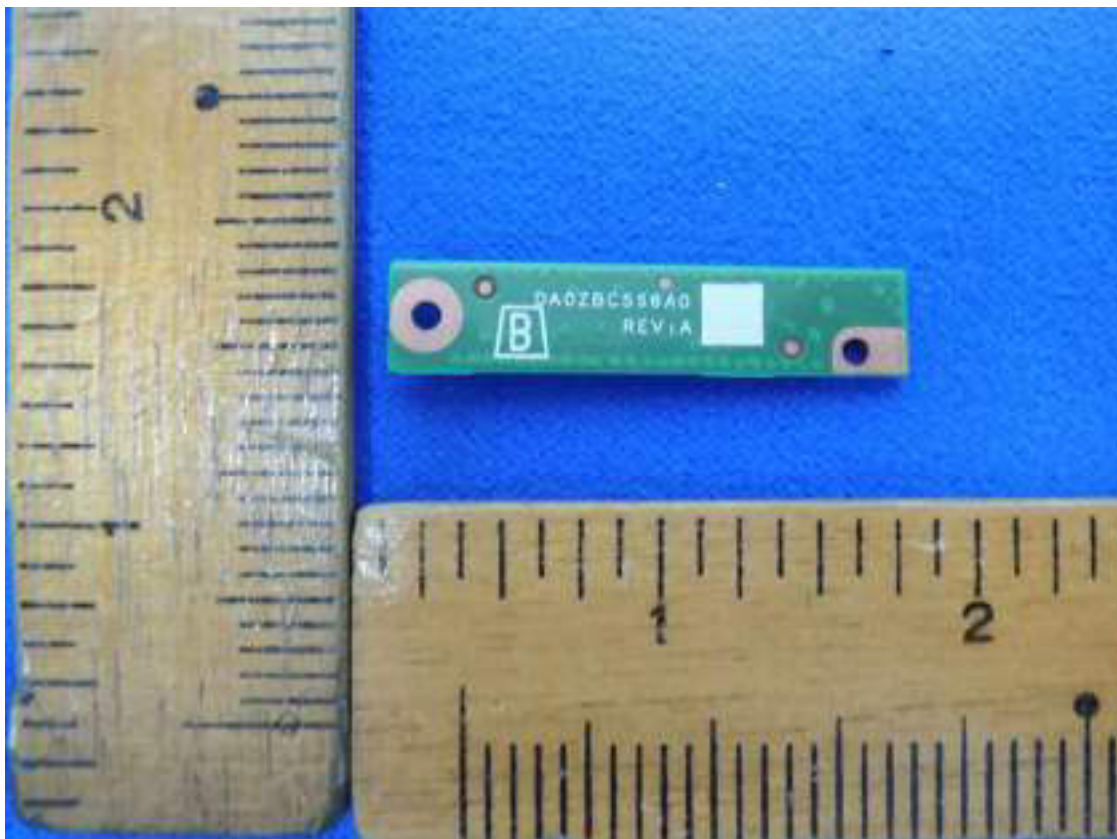
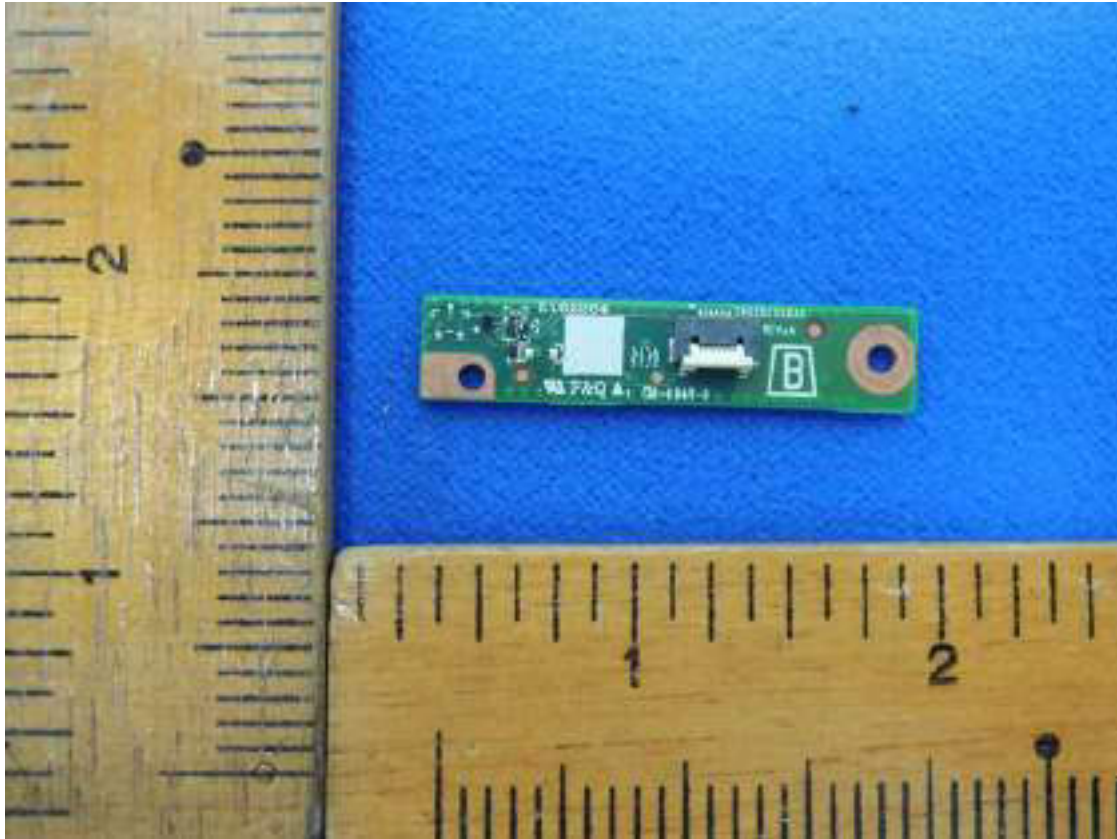


**eMMC**

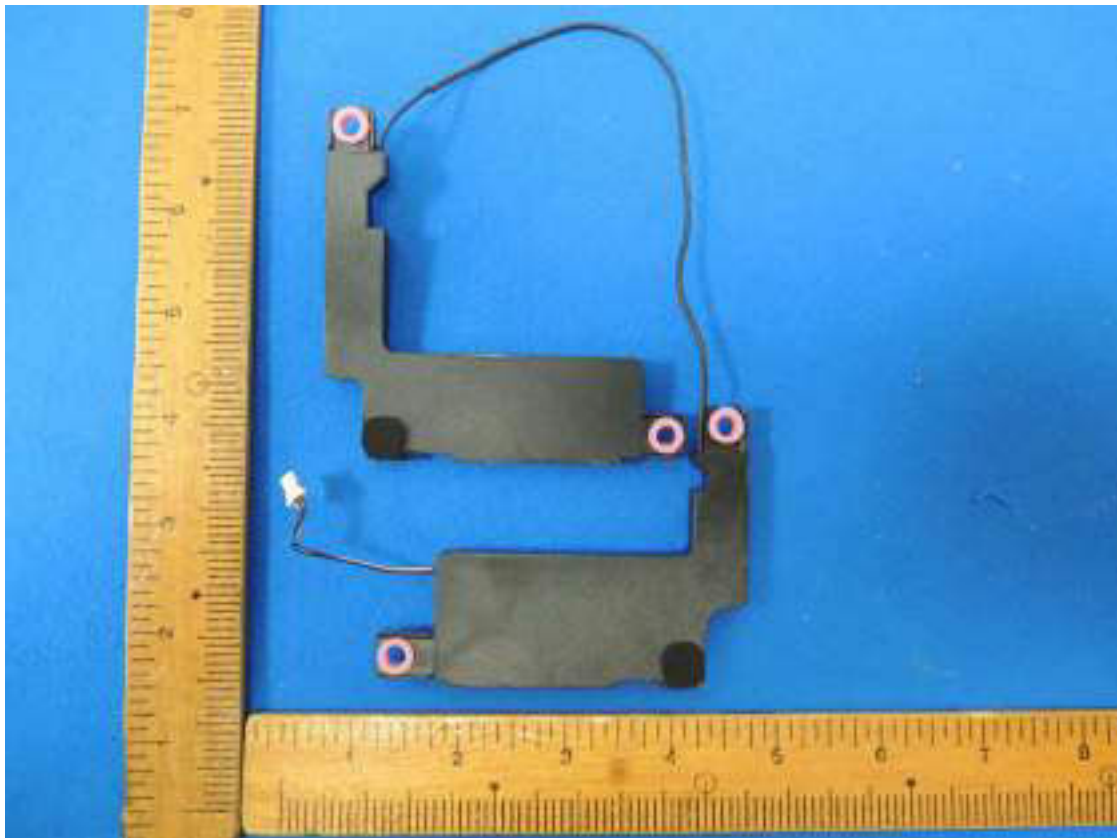
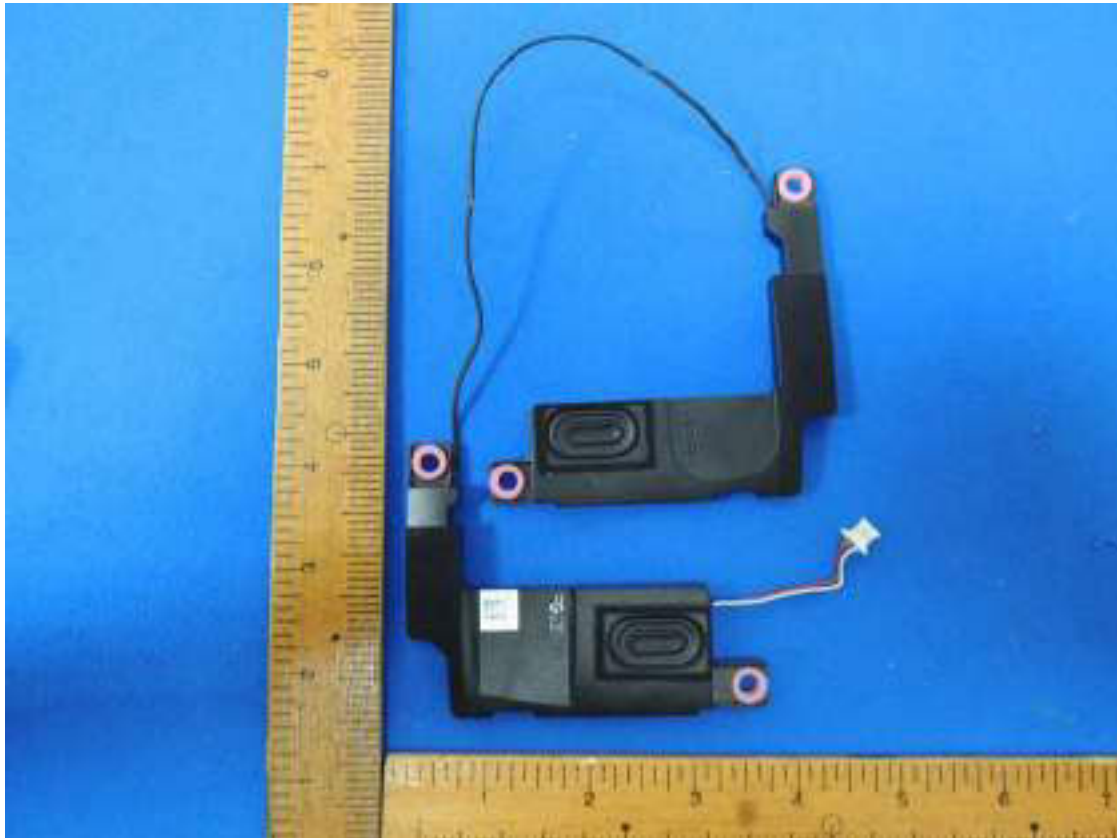
















Panel: AUO / B140XTN07.2





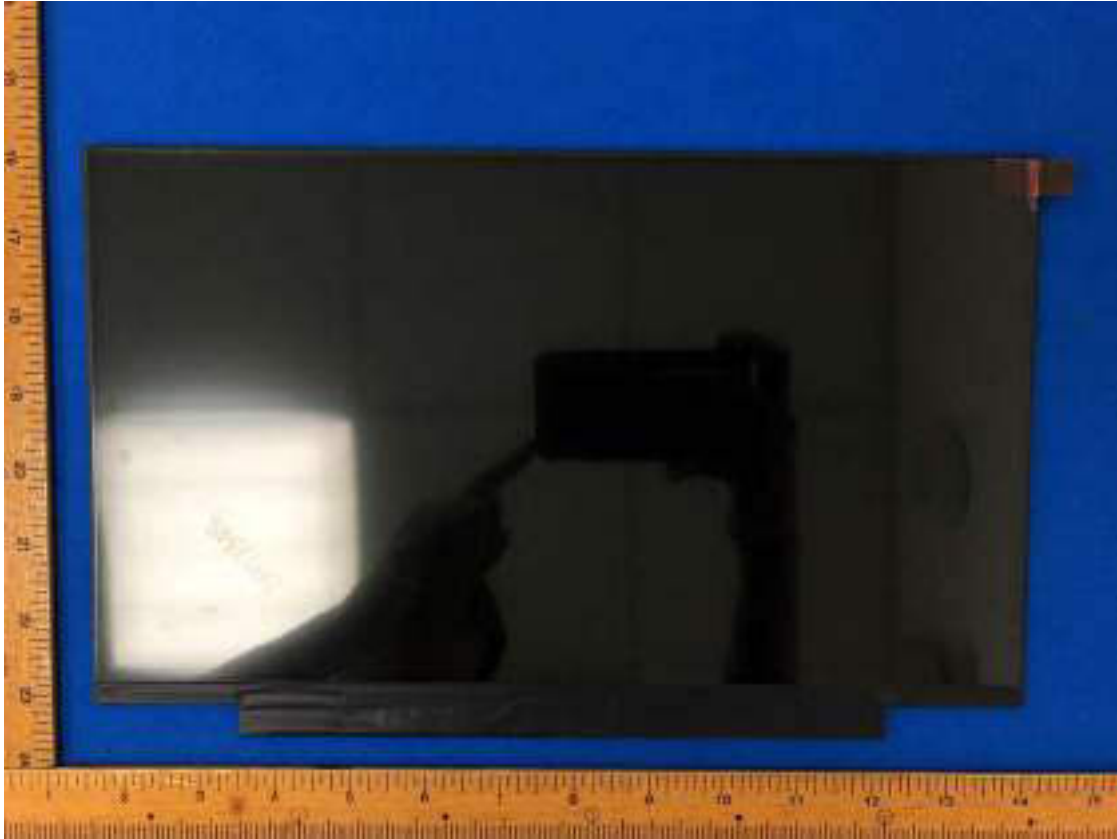
Panel: AUO / B140HAK03.0







Panel: BOE / NT140WHM-N43

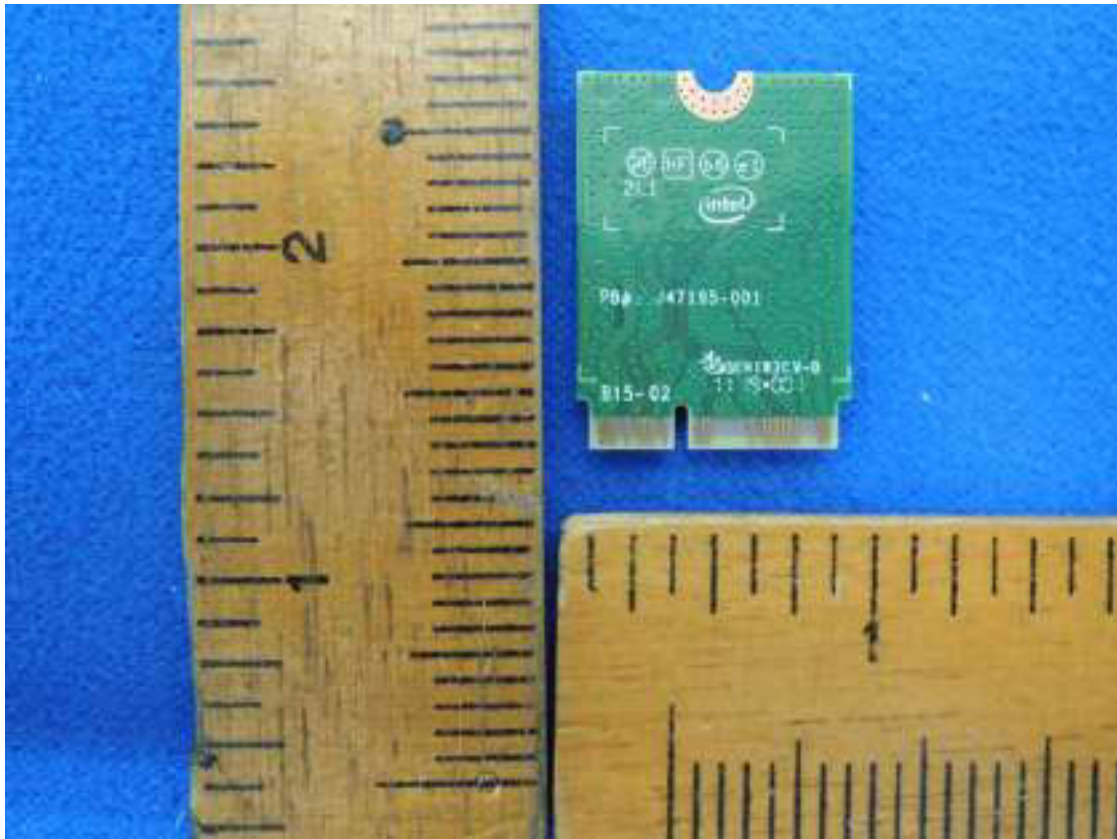




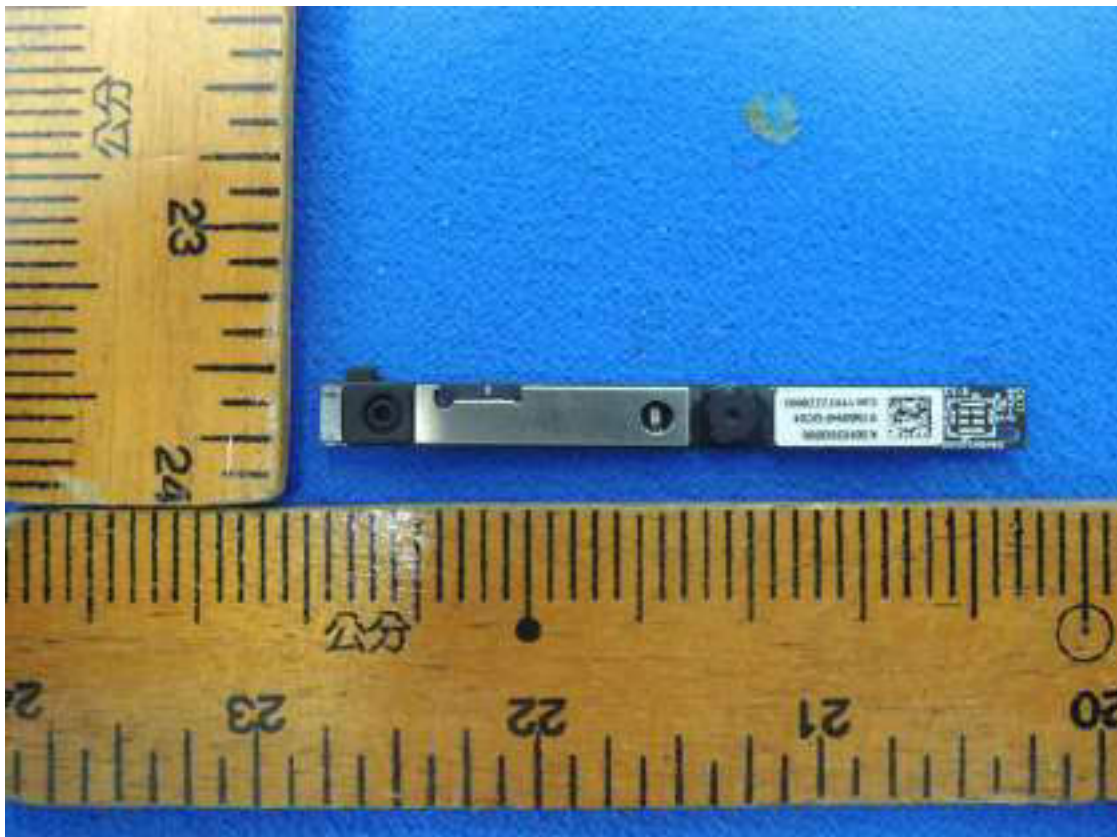
WLAN: Intel / 9560NGW

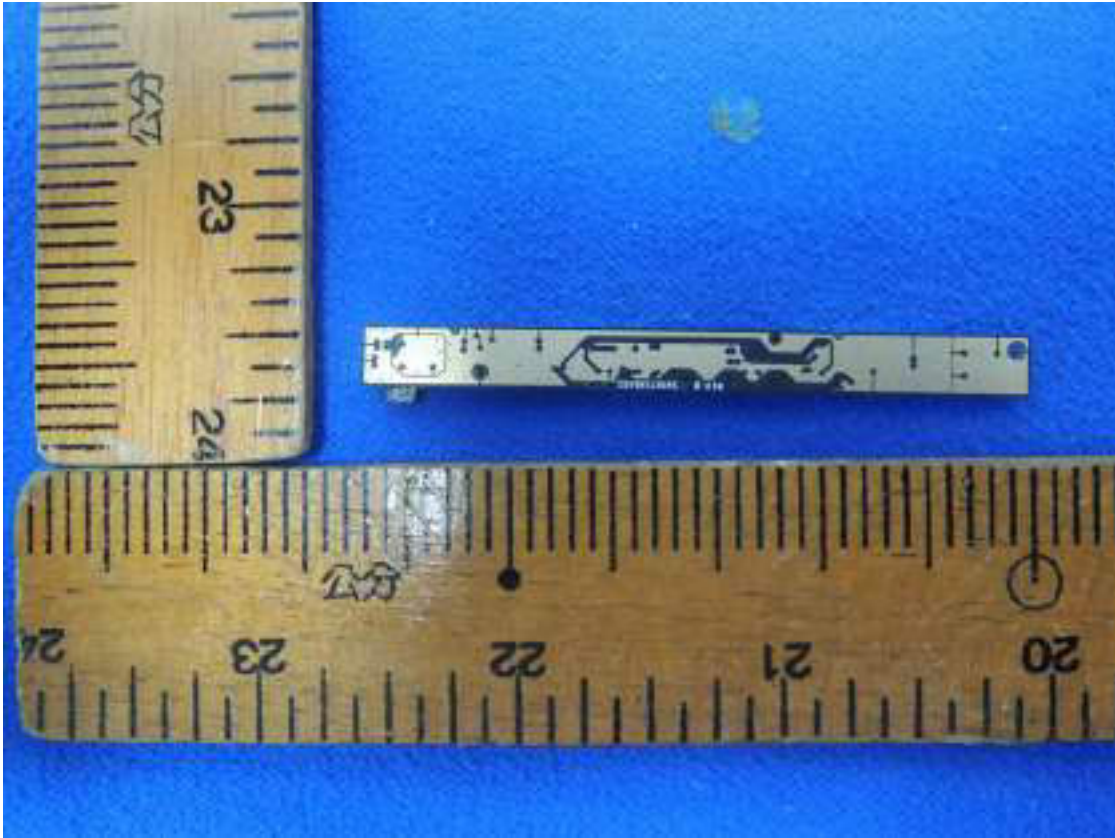




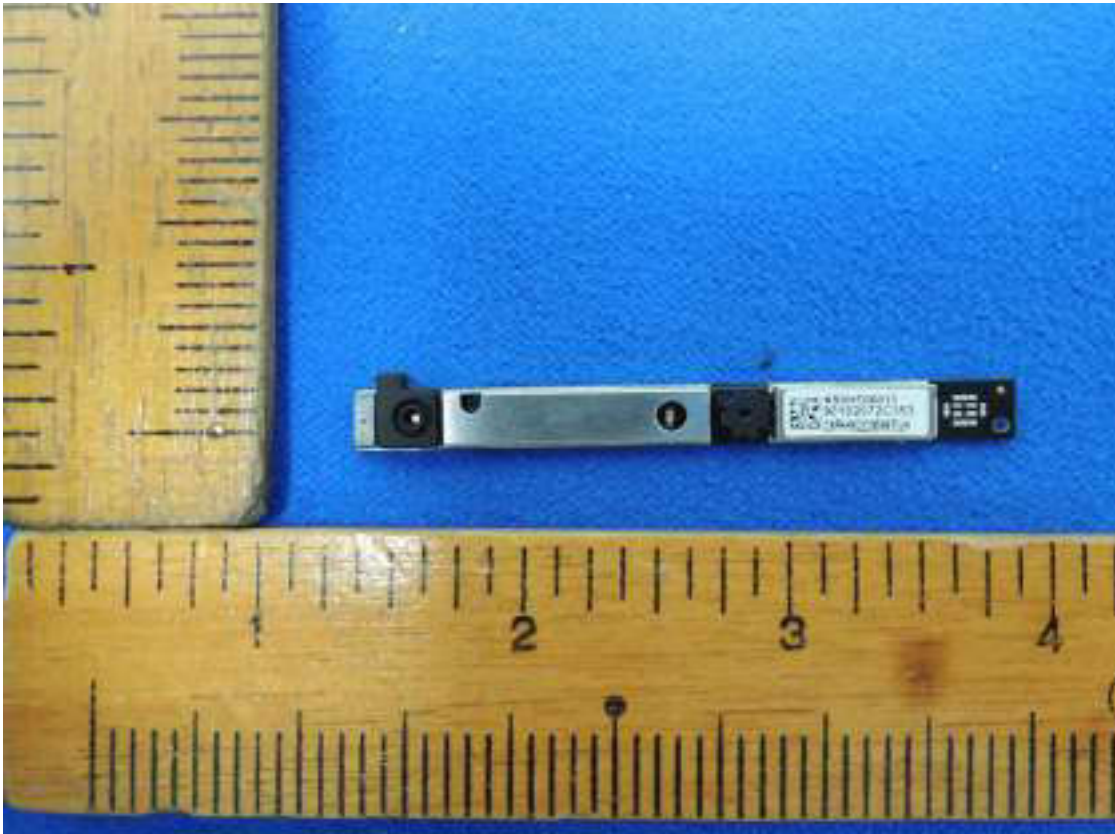


Camera: Quanta \ KS0HD0Q006

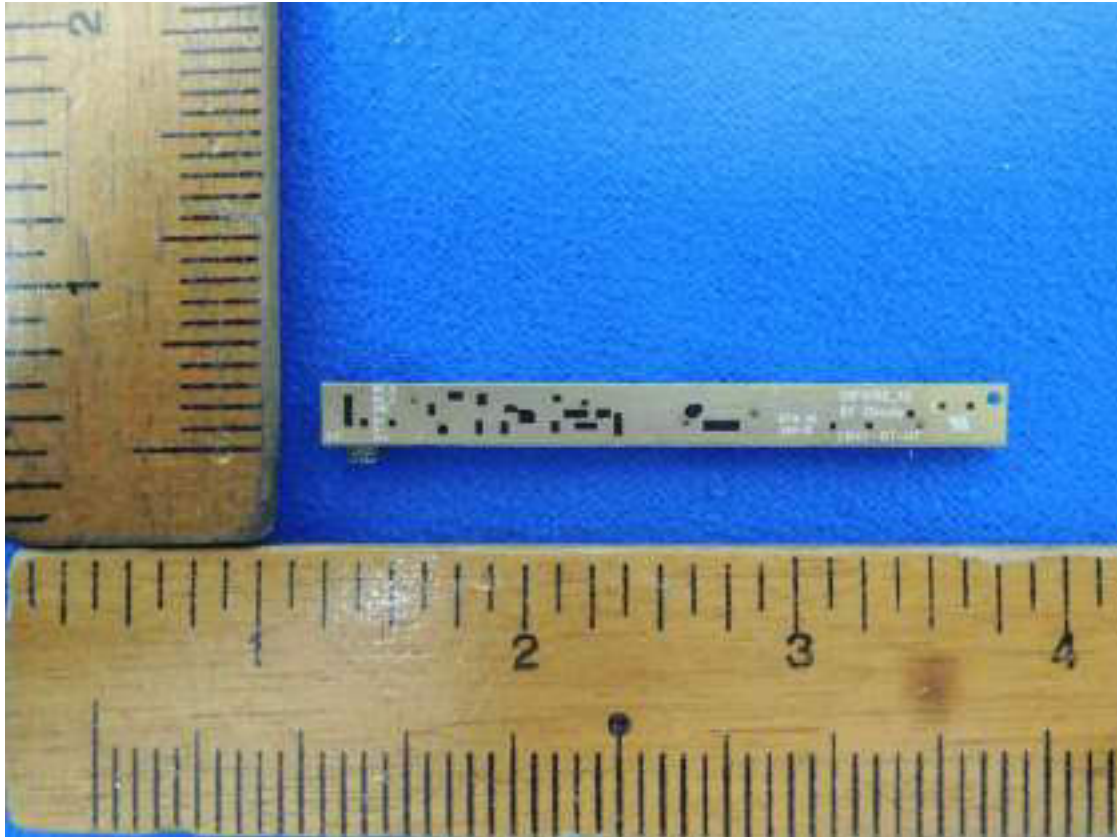




Camera: CHICONY / KS0HD06013







**Battery: LG / AP18C4K**







Battery: LG / AP18C8K







Adapter: Chicony / A18-045N1A







Adapter: Chicony / A16-045N1A



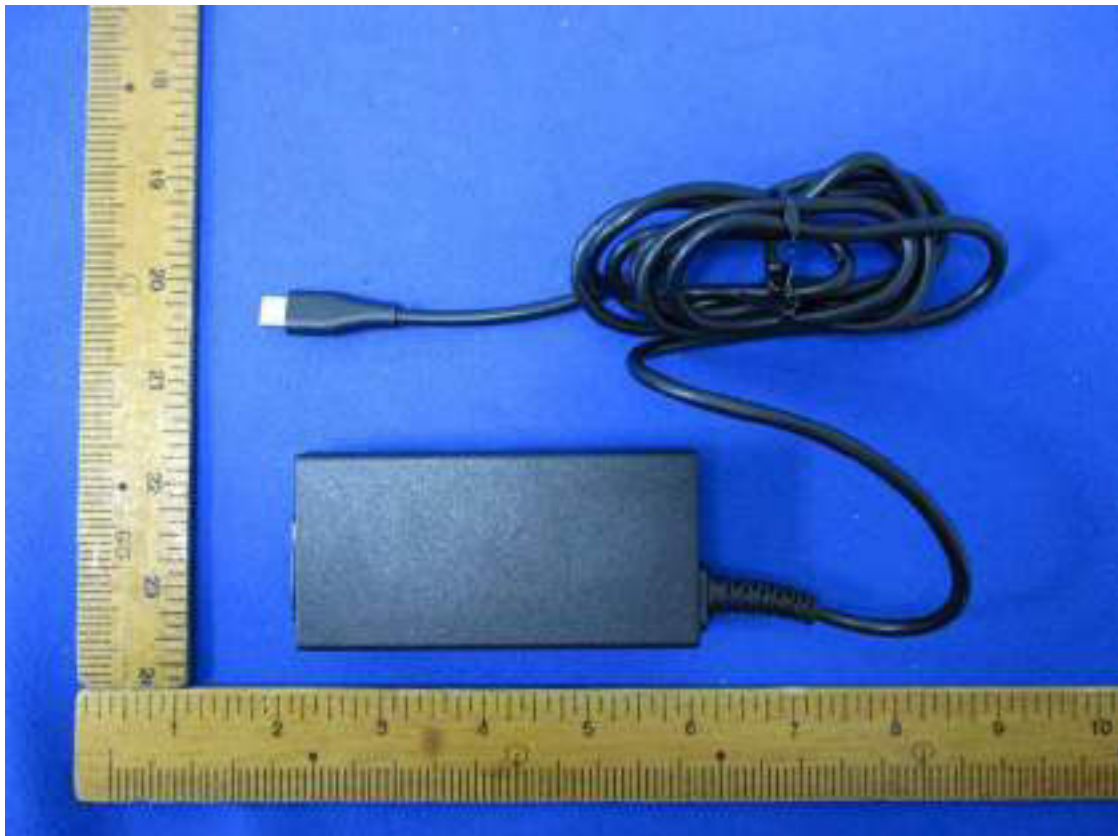








Adapter: DELTA / ADP-45HG B







Adapter: LITE-ON / PA-1450-50





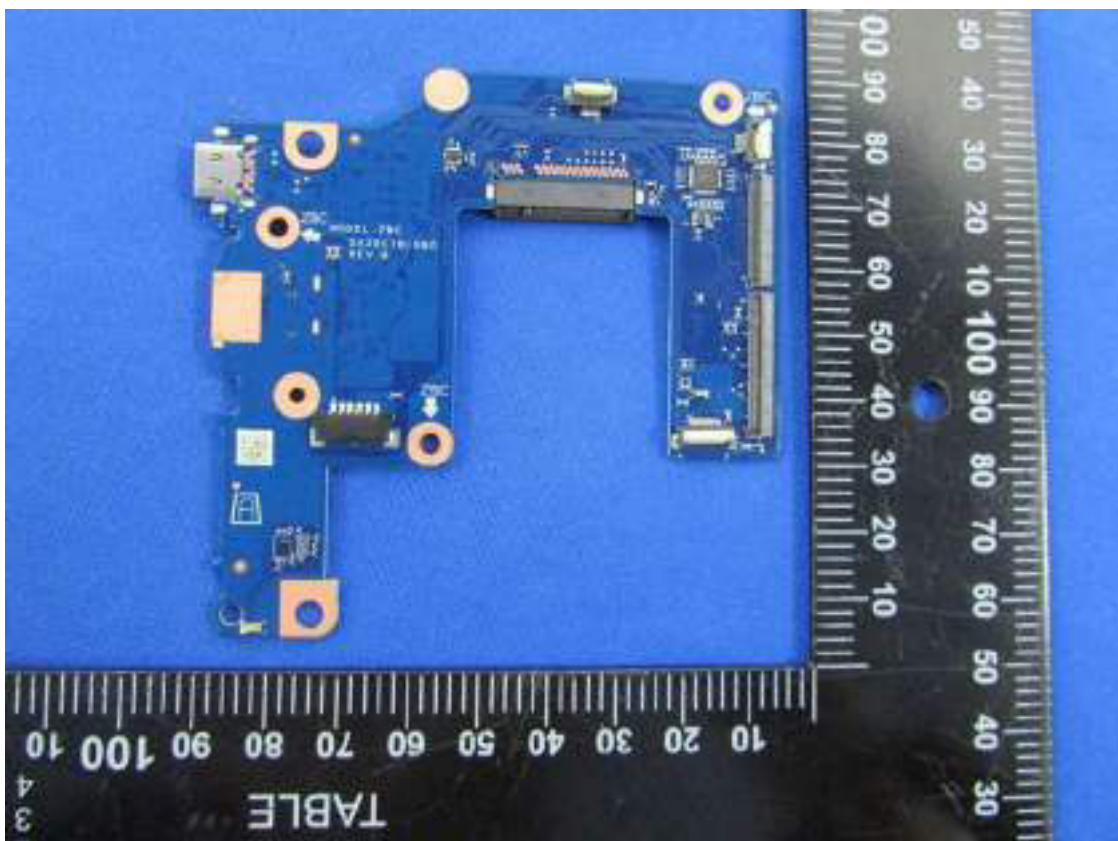
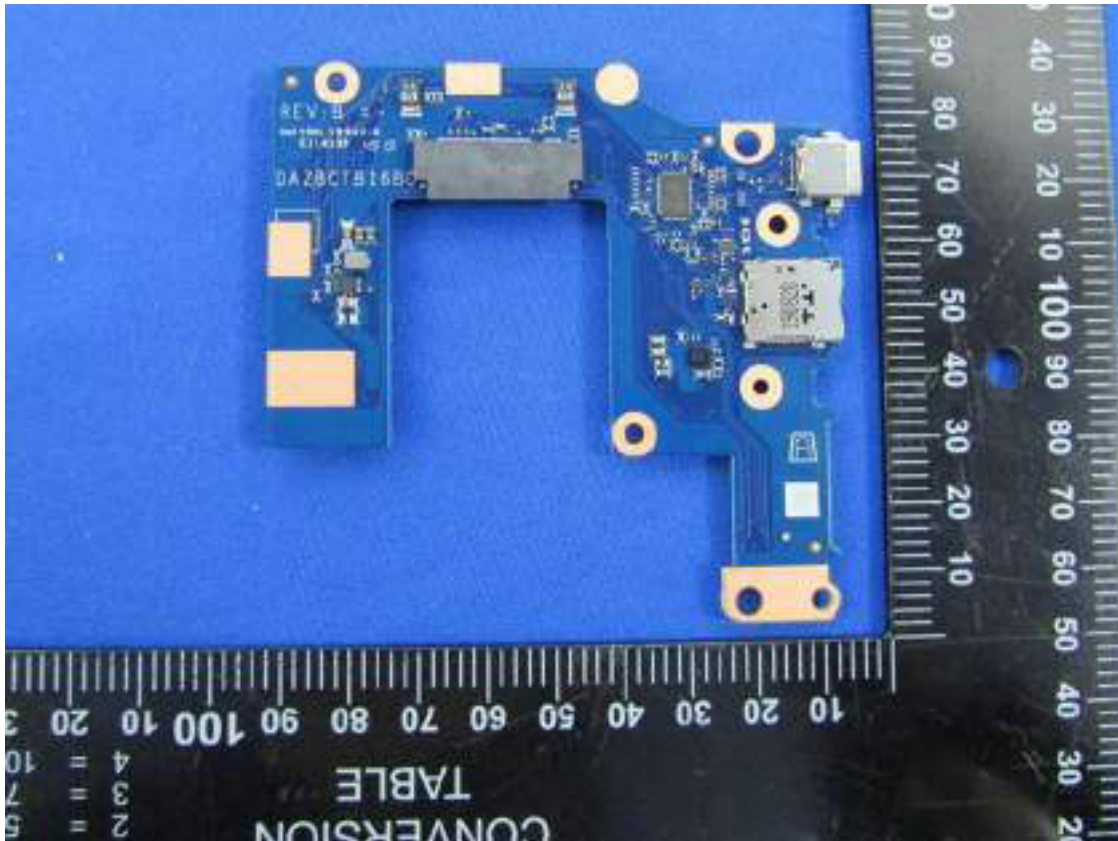


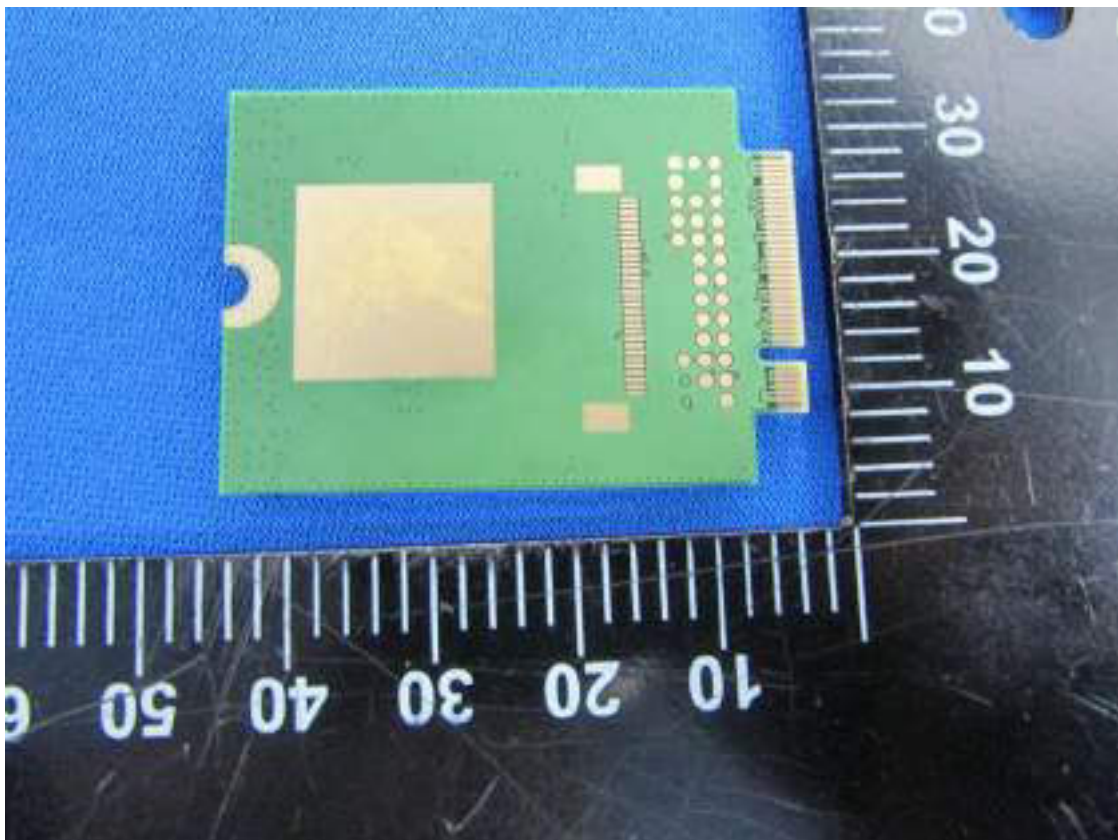


For LTE












# Declaration for REACH and POPs

Company: Acer Incorporated  
Address: 8F, 88, Sec. 1, Xintai 5th Rd, Xizhi, New Taipei City 221, Taiwan, R.O.C  
EU Importer: Acer Italy s.r.l.  
Address: Viale delle Industrie 1/A, 20020 Arese (MI), Italy  
Tel: +39-02-939-921, Fax: +39-02 9399-2913

This letter is to confirm all acer notebooks, desktops, All-in-one PCs, and monitors have been evaluated as compliant with Regulation (EC) 1907/2006 – Annex XIV candidate substance: SVHC (substances of very high concern), Annex XVII: substances restricted under REACH, and POP Regulation (EU) 2019/1021.

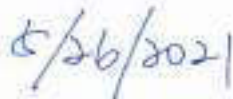
Signature: \_\_\_\_\_



Name: Angus Hsieh

Title: Director of Env. & Regulation Div.

Date: \_\_\_\_\_



## Annex B2 - Product environmental attributes Computers and computer monitors

The declaration may be published only when all rows and/or fields marked with \* are filled-in (n.a. for not applicable).  
Additional information regarding each item may be found under P15.


<b>Brand *</b>	<i>acer</i>	<b>Logo</b> 
<b>Company name *</b>	<i>Acer Inc</i>	
<b>Contact information * e-mail address</b>	<i>Name: Allan Sonne-Schmidt e-mail: allan_sonne-schmidt@acer-euro.com</i>	
<b>Internet site *</b>	<i>www.acer-euro.com</i>	
<b>Additional information</b>		

<b>The company declares (based on product specification or test results based obtained from sample testing), that the product conforms to the statements given in this declaration.</b>	
<b>Type of product *</b>	<i>Notebook</i>
<b>Commercial name *</b>	<i>C933,C933L,C933LT,C933T,CB314-1H,CB314-1HT,PCB314-1,PCB314-1T</i>
<b>Model number *</b>	<i>C933,C933L,C933LT,C933T,CB314-1H,CB314-1HT,PCB314-1,PCB314-1T</i>
<b>Issue date *</b>	<i>2021-05-05</i>
<b>Intended market *</b>	<input checked="" type="checkbox"/> Global <input type="checkbox"/> Europe <input type="checkbox"/> Asia, Pacific & Japan <input type="checkbox"/> Americas <input type="checkbox"/> Other
<b>Additional information</b>	

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.


### About Annex B2

Annex B2 reflects Product environmental attributes relevant for Computers and Computer Monitors. The following items from the ECMA-370 Main body are not shown in the template:  
P4.1 – P4.3 Consumable materials  
P9.1 TEC and Print speed  
P10.2 - P10.3 Chemical emissions from printing products  
P11.1 - P11.3 Consumable materials for printing products.

Model number *	C933,C933L,C933LT,C933T,CB314-1H,CB314-1HT,PCB314-1,PCB314-1T	Logo	
Issue date *	2021-05-05		

Product environmental attributes - Legal requirements		Requirement met		
Item		Yes	No	n.a.
<b>P1</b>	<b>Hazardous substances and preparations</b>			
P1.1*	Products do comply with current European RoHS Directive. (See legal reference and NOTE B1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.2*	Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorocarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.4*	Products do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated terphenyl (PCT) in preparations (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.5*	Products do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.6*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 µg/cm <sup>2</sup> /week (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:2011-5.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P1.7*	REACH Article 33 information about substances in articles is available at (add URL or mail contact): <a href="https://www.acer-group.com/sustainability/en/chemical-management-plans.html">https://www.acer-group.com/sustainability/en/chemical-management-plans.html</a>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P2</b>	<b>Batteries</b>			
P2.1*	If the product contains a battery or an accumulator, the battery/accumulator is labeled with the disposal symbol. Information on proper disposal is provided in user manual. (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P2.2*	Batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P2.3*	Batteries and accumulators are readily removable. (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P3</b>	<b>Conformity verification &amp; Eco design (ErP)</b>			
P3.1*	The product is CE-marked to show conformance with applicable legal requirements (see legal reference). The Declaration of Conformity can be requested at (add link or e-mail address): <a href="http://www.acer.com">www.acer.com</a>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3.2*	The product complies with the Eco design requirements for energy-related products, (see legal reference). Required information is; <input type="checkbox"/> given in item P15 or added to this document, <input checked="" type="checkbox"/> available at (add URL): <a href="http://www.acer.com">www.acer.com</a>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P5</b>	<b>Product packaging</b>			
P5.1*	Packaging and packaging components do not contain more than 0,01% lead, mercury, cadmium and hexavalent chromium by weight of these together.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P5.2*	The packaging materials are marked with abbreviations and numbers indicating the nature of the material(s) used (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference). Comment: Legal reference has no maximum concentration values.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P6</b>	<b>Treatment information</b>			
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

NOTE B1 Restriction applies to the homogeneous material, unless other specified and expressed in weight %. Stating "Yes" means that the product is compliant with the mandatory requirements.

Model number *	C933,C933L,C933LT,C933T,CB314-1H,CB314-1HT,PCB314-1,PCB314-1T	Logo	
Issue date *	2021-05-05		

Product environmental attributes - Market requirements (See General NOTE GN below)			
- Environmental conscious design			Requirement met
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.	Yes	No n.a.
<b>P7</b>	<b>Design</b>		
	<b>Disassembly, recycling</b>		
P7.1*	Parts that have to be treated separately are easily separable	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.2*	Plastic materials in covers/housing have no surface coating.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P7.3*	Plastic parts > 100 g consist of one material or of easily separable materials.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.4*	Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<b>Product lifetime</b>		
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.8*	Upgrading can be done using commonly available tools	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.9	Spare parts are available after end of production for: _____ years		<input checked="" type="checkbox"/>
P7.10	Service is available after end of production for: _____ years		<input checked="" type="checkbox"/>
	<b>Material and substance requirements</b>		
P7.11*	Product cover/housing material type (e.g. plastics, metal, aluminum): Material type: <b>PC+ABS+15%Talc</b> Material type: <b>PC+ABS</b> Material type:		
P7.12	Insulation materials of external electrical cables are PVC free.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P7.13	Insulation materials of internal electrical cables are PVC free.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P7.14	External plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) bromine and 0,1% weight (1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame retardants, and polyvinyl chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine in parts containing more than 25% post-consumer recycled content.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.15	Printed circuit boards, PCBs (without components) are low halogen: all <input type="checkbox"/> PCBs > 25 g <input type="checkbox"/> are low halogen as defined in IEC 61249-2-21. (See 1NOTE B2)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P7.16	Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4: Marking: <b>FR(40)</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.17	<u>Alt. 1:</u> Chemical specifications of flame retardants in printed circuit boards > 25 g (without components): TBBPA (additive) <input type="checkbox"/> , TBBPA (reactive) <input type="checkbox"/> (See NOTE B3), Other; chemical name: _____, CAS #: _____ <u>Alt. 2:</u> Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g according ISO 1043-4: <b>FR(16)</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.18	<u>Alt. 1:</u> Flame retarded plastic parts > 25 g contain the following flame retardant substances/preparations in concentrations above 0,1%: 1. Chemical name: <b>Phoshoric acid</b> , CAS #: <b>25971-63-5</b> (See NOTE B4) 2. Chemical name: _____, CAS #: _____ 3. Chemical name: _____, CAS #: _____ <u>Alt. 2:</u> Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.19	In plastic parts > 25 g, flame retardant substances/preparations above 0,1% are used which have been assigned the following Risk phrases; _____ and Hazard statements: _____ The source(s) for these classifications is/are found at (add URL(s)): _____, (See note B5)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P7.20*	Postconsumer recycled plastic material content is used in the product (See Note B6):  If YES; at least one of the two alternatives below shall be answered; a) Of total plastic parts' weight > 25 g, the postconsumer recycled plastic material content (calculated as a percentage of total plastic by weight) is <b>12.422%</b> . or b) The weight of recycled material is <b>63.8 g</b> .	<input type="checkbox"/>	<input checked="" type="checkbox"/>

GENERAL NOTE Standard references should direct to the latest version of a standard. If an older version of a standard is used, section P15 shall be used for explanation.


NOTE B2 IEC 61249-2-21 defines maximum limits of 900 ppm for each of the substances chlorine and bromine and a maximum limit of 1500ppm of these substances combined. The standard does not address fluorine, iodine and astatine which are included in the group of halogens.

NOTE B3 and B4 A Guidance document on Chemical substances is available; see <http://www.ecma-international.org/publications/standards/Ecma-370.htm>

NOTE B5 If a certain substance has been assigned a certain risk phrases / hazard statement in the referenced source, this does not necessarily mean the substance has been tested for all of the hazards referred to by a certain customer.

NOTE B6 Applies to a product containing plastic parts whose combined weight exceeds 100 g with the exception of printed circuit boards, cables, connectors and electronic components and bio-based plastic material.



Model number *	C933,C933L,C933LT,C933T,CB314-1H,CB314-1HT,PCB314-1,PCB314-1T	Logo	
Issue date *	2021-05-05		

Product environmental attributes - Market requirements (continued)		Requirement met		
Item		Yes	No	n.a.

**Material and substance requirements (continued)**

P7.21*	Biobased plastic material content is used in the product (See NOTE B7): If YES; at least one of the two alternatives below shall be answered; a) Of total plastic parts' weight > 25 g, the biobased plastic material content (calculated as a percentage of total plastic by weight) is %. or b) The weight of the biobased plastic material is g.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.22*	Light sources are free from mercury, i.e. less than 0,1 mg/lamp. If mercury is used specify: Number of lamps: and maximum mercury content per lamp: mg	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**P8 Batteries**

P8.1*	Battery chemical composition: <i>Lithium ion (battery)</i>	<input type="checkbox"/>
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**P9 Energy consumption (See NOTE B8)**

P9.1 For the product the following power levels or energy consumptions are reported:

Energy mode *	Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference/Standard for energy modes and test method *	<input type="checkbox"/>
EPS No-load (External power supply / charger plugged in the wall outlet but disconnected from the product.)	<i>0.01</i>	<i>0.01</i>	<i>0.05</i>	<i>ENERGY STAR V7.1</i>	
PTEC * Typical Energy Consumption	<i>1.24 W</i>	<i>1.29 W</i>	<i>1.36 W</i>	<i>ENERGY STAR V7.1</i>	<input type="checkbox"/>
ETEC * Annual Energy Consumption	<i>10.9 kWh/year</i>	<i>11.27 kWh/year</i>	<i>11.94 kWh/year</i>	<i>ENERGY STAR V7.1</i>	<input type="checkbox"/>
External Power Supply Efficiency Level (International Efficiency Marking Protocol) * : <i>VI</i>					<input checked="" type="checkbox"/>
Display resolution * : <i>1366x900</i> megapixels					<input checked="" type="checkbox"/>
Default time to enter energy save mode: <i>10</i> minutes					<input type="checkbox"/>
P9.2*	Information about the energy save function is provided with the product.			<input checked="" type="checkbox"/>	<input type="checkbox"/>
P9.3	Energy efficiency class (monitors only):				<input checked="" type="checkbox"/>

**P10 Emissions**

**Noise emission** – Declared according to ISO 9296 (See NOTE B9)


P10.1	Mode	Mode description	Statistical upper limit A-weighted sound power level, $L_{WA,c}$ (B)	Declared A-weighted sound pressure level, $L_{pAm}$ (dB)	<input type="checkbox"/>
	Idle	* <i>Idle state</i>	* <i>2.8</i>	<i>24.8</i>	<input checked="" type="checkbox"/>
	Operation	* <i>HDD</i>	* <i>2.8</i>	<i>24.8</i>	<input checked="" type="checkbox"/>
	Other mode				
Measured according to: <input checked="" type="checkbox"/> ISO 7779 <input type="checkbox"/> ECMA-74 <input type="checkbox"/> Other (only if not covered by ECMA-74)					

NOTE B7 The following is to be excluded from the calculation of percentage: printed circuit boards, labels, cables, connectors and electronic components and postconsumer recycled plastic

NOTE B8 A Guidance document on Energy Efficiency is available; see <http://www.ecma-international.org/publications/standards/Ecma-370.htm>

NOTE B9 A Guidance document on Acoustic Noise is available; see <http://www.ecma-international.org/publications/standards/Ecma-370.htm>



Model number *	C933,C933L,C933LT,C933T,CB314-1H,CB314-1HT,PCB314-1,PCB314-1T	Logo	
Issue date *	2021-05-05		

Product environmental attributes - Market requirements (continued)		Requirement met		
Item		Yes	No	n.a.
<b>Electromagnetic emissions</b>				
P10.4	Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program(s):	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P12 Ergonomics for computing products</b>				
P12.1*	The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P12.2*	The physical input device meets the requirements of ISO 9995 and ISO 9241-410.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>P13 Packaging and documentation</b>				
P13.1*	Product packaging material type(s): <b>Papers</b> weight (kg): <b>0.815</b> Product packaging material type(s): <b>Plastic</b> weight (kg): <b>0.0268</b> Product packaging material type(s): weight (kg):			
P13.2*	Product plastic primary packaging is free from PVC.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P13.3*	For product primary corrugated fiberboard packaging, specify the contained percentage of minimum post-consumer recovered fiber content: <b>85</b> %			<input type="checkbox"/>
P13.4*	Specify media for user and product documentation (tick box): Electronic <input checked="" type="checkbox"/> , Paper <input checked="" type="checkbox"/> , Other <input type="checkbox"/>			<input type="checkbox"/>
P13.5	(Please only complete this item if paper documentation used) User and product documentation on paper media is chlorine-free: If Yes, please specify:  Totally chlorine-free Elemental chlorine-free Processed chlorine-free	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>P14 Voluntary programs</b>				
P14.1	The product meets the requirements of the following voluntary program(s):  ENERGY STAR® Criteria version: <b>7.1</b> Date: <b>2019/7/5</b> Product category: <b>NB 1</b> Eco-label: Criteria version: Date: Product category: Eco-label: Criteria version: Date: Product category:			
<b>P15 Additional information (See NOTE B10)</b>				
P9	<b>Energy consumption of computer products; description of the tested product configuration:</b>			

NOTE B10 Additional lines may be inserted to declare further items, by positioning the cursor at the far right of the row and hitting the <Enter> key.

## Legal references Europe Annex B2

Reference	Declaration item
Directive 2011/65/EU (RoHS Directive) * * Specific exemptions apply for certain products and applications.	P1.1
Regulation (EC) 1907/2006(REACH, Annex XVII)	P1.2, P1.4, P1.6, P1.7
Regulation (EC) 2037/2000, 2038/2000, 2039/2000 (Marketing and use of Ozone layer depleting substances)	P1.3, P5.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
Directive 2013/56/EC (Battery and accumulators Directive) * * These provisions shall not apply where, for safety, performance, medical or data integrity reasons, continuity of power supply is necessary and requires a permanent connection between the appliance and the battery or accumulator.	P2.1, P2.2, P2,3, P8.1
Directive 2006/95/EC (Low Voltage Directive)	P3.1
Directive 2004/108/EC (EMC Directive)	P3.1
Directive 1999/5/EC (R&TTE Directive)	P3.1
Regulation (EC) 801/2013 amending Regulation (EC) No 1275/2008 with regard to ecodesign requirements for standby, off mode electric power consumption of electrical and electronic household and office equipment, and amending Regulation (EC) No 642/2009 with regard to ecodesign requirements for televisions	P3.1, P3.2
Regulation (EC) No 1272/2008 (CLP Regulation)	P7.19
Directive 2004/12/EC ( Packaging Directive)	P5.1
Decision 97/129/EC (Secondary packaging legislation)	P5.2
Directive 2012/19/EU (WEEE directive)	P6.1

# Notebook



LATITUDE

**3340/3440/3540**

Modern design with up-leveled essential productivity features for every business.



## LATITUDE

# 3340/3440/3540

Modern design with up-leveled essential productivity features for every business.

A broad range of essential features built for any business and any budget, and perfectly suited for the mobile professional who works from anywhere.



Ideal for task-oriented professionals, educators, and students performing advanced curriculum who are driven to produce results and strive for efficiency. They need enterprise-level security, essential intelligence and collaboration features that help them stay productive.

World's Lightest New 13" Essential Business Laptop:<sup>14</sup>  
Starts at 2.76lbs/1.25kg

### Upgraded Audio

Experience improved audio quality for better collaboration on 14"/15".

### Optional FHD IR Camera

Collaborate more confidently and sign-in securely with Windows Hello.

### All new modern, design

Re-designed chassis featuring a new color and texture on 14"/15".

### Optimal versatility

13" 2-in-1 features an optional Active Touch panel with pen support.

### Privacy Control

Mechanical Privacy Camera Shutter.

### Up-leveled Performance

13<sup>th</sup> Generation Intel® Core™ Processors up to i7. Offering a vast array of memory options with the new, fast LPDDR5 memory on 13", DDR4 memory on 14"/15", and discrete graphics card options on 14"/15".

### New enhanced keyboard

Improved backlit\* keyboard with durable, laser-etched key prints, and longer key travel for increased comfort.

### 4G, Wi-Fi 6 & Wi-Fi 6E<sup>20</sup> connections

Wi-Fi 6E allows 7 more channels for more bandwidth which provides faster, smoother Wi-Fi, especially in high-density areas while 4G LTE options keep you connected wherever you work.

### Upgraded clickpad

Work comfortably on the new clickpad featuring improved feel for better productivity.

### ExpressResponse

Launch applications faster and improve overall app performance.

### Intelligent Audio with Neural Noise Cancellation

Collaborate confidently with AI-based background noise elimination.

### ExpressConnect

Utilize 2 or more networks at once with ExpressConnect, the world's 1<sup>st</sup> simultaneous multi-network connection for faster data and video downloads.

### Outstanding run-time plus faster charging with ExpressCharge

Multiple battery options up to 54WHr, and rapid reload up to 80% in 60 minutes.

### Sustainable design

Our most sustainable Latitude 3000 series yet, featuring components made with postconsumer recycled plastics.



Uses 100% recycled and renewable packaging<sup>21</sup>, including multipack options.

\*Backlit keyboard is optional.

# 3000

## Sustainability on Dell Latitude 3000 series

Delivering innovative technology and solutions to reduce our environmental impact, for ourselves and our customers.

### Sustainable Materials

Our use of sustainable materials helps reduce the environmental impact of making and recycling them.\*



Latitude 3340 and Latitude 3340 2-in-1:  
50% recycled plastics in bezel, battery housing and AC adapter exterior (upsell only), 30% recycled plastics in the lids and bottom door

Latitude 3440 and Latitude 3540  
50% recycled plastics in bezel, bottom door, battery housing and AC adapter exterior (upsell only), 30% recycled plastics in the palm rest

### Packaging Innovation

Ships in new enhanced **100% recycled or renewable packaging that is also 100% recyclable.**\*\*\* Multipack shipping available on eligible products.



### Ecolabels

Eco-labeling standards drive sustainability further by helping customers understand electronic products and the companies that make them. This product meets the following standards:



### Recycle

Securely and responsibly retire your IT equipment with Dell regardless of brand, in support of a circular economy. Learn more at [Dell.com/Recycle](https://Dell.com/Recycle)

See how we are reducing the impact of our products and solutions  
[Dell.com/Sustainable-Devices](https://Dell.com/Sustainable-Devices)



# 3340/3440/3540

## Dell Optimizer

We make it intelligent. You make it yours.

In a work-from-anywhere world, powering the world's most intelligent commercial PCs<sup>18</sup> is not enough, Dell Optimizer is extending personalized intelligence to the rest of the Dell ecosystem.

Dell Optimizer lets you accomplish anything with built-in intelligence that learns and adapts to the way you work.



Elevate everyday work with personalized performance extending from your Latitude to the devices within your workspace.



### An intelligent ecosystem

Enjoy easy pairing and management of your Dell monitors and accessories with the **integration of Dell Display Manager and Dell Peripheral Manager.**



### Unmatched connectivity

**ExpressConnect** provides the world's first simultaneous multinet network connection<sup>19</sup> that joins the best network available.



### Improved app performance

**ExpressResponse** analyzes how you use your preferred apps to boost performance.



### Up level audio

**Intelligent Audio** delivers sound and mic enhancements reducing background noise using neural noise cancellation and voice isolation technology.



### Extended power

**ExpressCharge** analyzes your power usage habits to improve PC battery utilization and extends run times by charging your system faster when you need a boost in power.

With Dell Optimizer, optimization and data collection follow a stringent process to ensure your privacy and security.

[Click here to learn more about Dell Optimizer.](#)

# 3340/3440/3540

Make yourself more resilient to cyberattacks with Dell Trusted Devices.

Attacks are inevitable. In fact, 69% of organizations report a cyber-attack due to a poorly managed internet-facing asset in the prior 12 months.\* Dell Technologies understands that today's security challenges include managing an evolving threat landscape with a modern work environment in mind. With Dell commercial devices, catch and repel malicious activity before it compromises your system. Latitude, one of the industry's most secure commercial PCs\*\*, offers layers of security features to keep you protected and give you visibility to threats for swift action.



Secure anywhere-work with hardware and firmware defenses built for our hyper-distributed world.



### Stay protected from evolving threats

Our unique BIOS and firmware verification provides greater security than other PCs. Assess a corrupt BIOS, repair it and gain insights that reduce exposure to future threats.



### Spot ticking timebombs

Indicators of Attack, an early-alert feature offered only by Dell, scans for behavior-based threats before they can do damage.



### Detect chassis tampering

Detect unauthorized access, e.g., malicious implanted hardware or software, data/component theft inside system chassis.



### Secure end user credentials

SafelD, a dedicated FIPS Level 2 certified security chip, keeps user credentials hidden from malware.



### Be safe from first boot

Rigorous, state-of-the-art supply chain controls reduce the risk of product tampering. Optional additions like the Dell-unique Secured Component Verification provide additional assurance of device integrity.

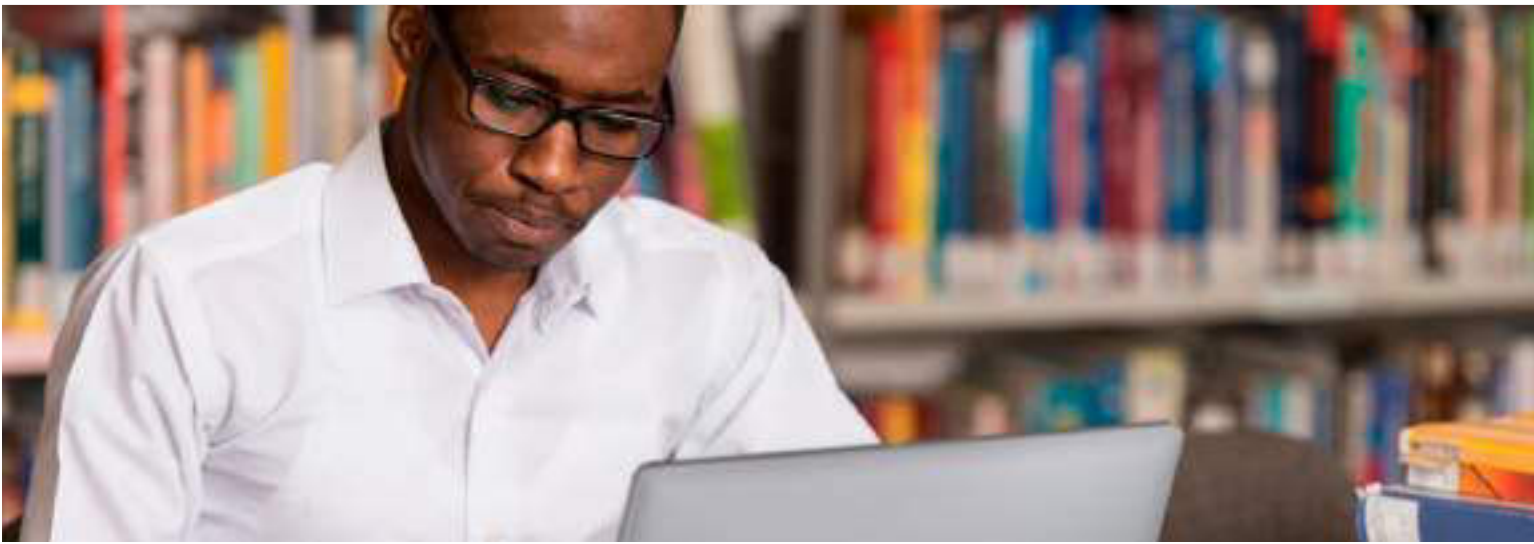


### Protect data everywhere

Stay protected against advanced threats with optional software-based protections from our ecosystem of best-of-breed partners (CrowdStrike, VMware Carbon Black, Secureworks, Netskope and Absolute).

\*ESG Survey: Security, Hygiene and Posture Management, Jan. 2022

\*\*Dell internal analysis, September 2022. Not all features available with all PCs. Additional purchase required for some features



## RECOMMENDED SOLUTIONS

HOME



**Dell 24 USB-C Hub Monitor - P2422HE**

Stay productive, no matter where you work. Reduce harmful blue light with this sleek 23.8-inch FHD hub monitor with ComfortView Plus.



**Dell Pro Webcam - WB5023**

Experience industry leading video quality and picture clarity in any lighting with this intelligent 2K QHD webcam.



**Dell Dual Dock - HD22Q**

Powerfully productive, this compact dock is the world's first laptop docking station with a wireless charging stand for Qi-enabled smartphone or earbuds.



**Dell Pro Wireless Headset - WL5022**

Enjoy wireless freedom with this Teams certified headset with Bluetooth. Switch seamlessly to your PC or smartphone and enjoy crystal clear audio on the go.

OFFICE



**Dell 24 Video Conferencing Monitor - C2423H**

Stay in sync on a 24-inch FHD monitor with built-in conferencing essentials, low blue light and an eco-friendly design.



**Dell Pro Wireless Keyboard and Mouse - KM5221W**

Enhance your everyday productivity with a quiet full-size keyboard and mouse combo that offers programmable shortcuts and 36 months battery life.



**Dell USB-C Dock - WD19S 130W**

Boost your PC's power up to 90W with ExpressCharge on the world's most powerful and first modular USB-C dock with a future-ready design.<sup>16,17</sup>



**Dell Speakerphone - SP3022**

Experience rich, clear sound with the world's most intelligent Microsoft Teams-certified speakerphone.<sup>15</sup>

# 3340/3440/3540

## FEATURE TECHNICAL SPECIFICATION

MODEL NUMBER <sup>1</sup>	Latitude 3340 (Laptop or 2-in-1)	Latitude 3440	Latitude 3540
<b>PROCESSOR OPTIONS<sup>1</sup></b>	13th Gen Intel® Core™ processors up to i7, U15 12th Gen Intel® Core™ i3 processor, U15	13th Gen Intel® Core™ processors up to i7, U15 12th Gen Intel® Celeron® and Core™ i3 processors, U15	13th Gen Intel® Core™ processors up to i7, U15 12th Gen Intel® Celeron® and Core™ i3 processors, U15
<b>OPERATING SYSTEM<sup>1</sup></b>	Microsoft® Windows 10 Pro 64-bit (11 License) Microsoft® Windows 11 Home 64-bit Microsoft® Windows 11 Pro 64-bit Ubuntu® 22.04 LTS, 64-bit (Laptop only)	Microsoft® Windows 10 Pro 64-bit (11 License) Microsoft® Windows 11 Home 64-bit Microsoft® Windows 11 Pro 64-bit Ubuntu® 22.04 LTS, 64-bit	Microsoft® Windows 10 Pro 64-bit (11 License) Microsoft® Windows 11 Home 64-bit Microsoft® Windows 11 Pro 64-bit Ubuntu® 22.04 LTS, 64-bit
<b>MEMORY OPTIONS<sup>1,2,3</sup></b>	Up to 16 GB LPDDR5 4800 MT/s (on board) Up to 16 GB LPDDR5x 4800 MT/s (on board), (coming soon)	Up to 64 GB DDR4 3200 MT/s (socketed)	Up to 64 GB DDR4 3200 MT/s (socketed)
<b>CHIPSET<sup>1</sup></b>	Integrated with the processor	Integrated with the processor	Integrated with the processor
<b>INTEL RESPONSIVENESS TECHNOLOGIES<sup>1,6</sup></b>	Intel® Rapid Storage Technology	Intel® Rapid Storage Technology	Intel® Rapid Storage Technology
<b>GRAPHICS<sup>1,12</sup></b>	<b>Integrated:</b> Intel® Iris® Xe Graphics with Intel® Core™ i5/i7 processors Intel® UHD Graphics with Intel® Core™ i3 processors	<b>Integrated:</b> Intel® Iris® Xe Graphics with Intel® Core™ i5/i7 processors and dual-channel memory configuration Intel® UHD Graphics with Intel® Celeron® and Core™ i3 processors or single channel memory <b>Discrete:</b> NVIDIA® GeForce® MX550, 2 GB GDDR6	<b>Integrated:</b> Intel® Iris® Xe Graphics with Intel® Core™ i5/i7 processors and dual-channel memory configuration Intel® UHD Graphics with Intel® Celeron® and Core™ i3 processors or single channel memory <b>Discrete:</b> NVIDIA® GeForce® MX550, 2 GB GDDR6
<b>DISPLAY<sup>1</sup></b>	<b>Laptop</b> 13.5" 16:9 FHD (1920 x 1080), WVA/IPS, Non-Touch, Anti-Glare, 250 nit, NTSC 45% <b>2-in-1</b> 13.3" 16:9 FHD (1920 x 1080), WVA/IPS, Touch, Anti-Glare, 250 nit, NTSC 45% 13.3" 16:9 FHD (1920 x 1080), WVA/IPS, Touch, Anti-Reflective, Anti-Glare, Anti-Smudge, 300 nit, NTSC 72%, Corning® Gorilla Glass®, Active Pen Support	14" 16:9 HD (1366 x 768), TN, Non-Touch, Anti-Glare, 220 nit, NTSC 45% 14" 16:9 FHD (1920 x 1080), WVA/IPS, Non-Touch, Anti-Glare, 250 nit, NTSC 45% 14" 16:9 FHD (1920 x 1080), WVA/IPS, Touch, Anti-Glare, 300 nit, NTSC 72%	15.6" 16:9 HD (1366 x 768), TN, Non-Touch, Anti-Glare, 220 nit, NTSC 45%, 15.6" 16:9 FHD (1920 x 1080), WVA/IPS, Non-Touch, Anti-Glare, 250 nit, NTSC 45% 15.6" 16:9 FHD (1920 x 1080), WVA/IPS, Touch, Anti-Glare, 250 nits NTSC 45%
<b>STORAGE OPTIONS<sup>1,3</sup></b>	Up to 1TB, M.2 2230 PCIe NVMe, SSD, Class 35 Up to 1TB, M.2 2280 PCIe NVMe, SSD, Class 40	Up to 1 TB, M.2 2230, PCIe NVMe, SSD, Class 35 Up to 1 TB, M.2 2280, PCIe NVMe, SSD, Class 40	Up to 1 TB, M.2 2230, PCIe NVMe, SSD, Class 35 Up to 1 TB, M.2 2280, PCIe NVMe, SSD, Class 40
<b>SECURITY<sup>1</sup></b>	TPM 2.0 FIPS-140-2 Certified / TCG Certified Optional fingerprint reader in power button (Windows Hello compliant) Optional Face IR camera (Windows Hello compliant) Network based Contextual Privacy Camera Shutter Chassis Intrusion Detection Dell SafeBIOS Dell SafeID Dell Client Command Suite Factory Installed Dell Command Update Dell Performance Dell SupportAssist for home PCs Dell Trusted Devices Additional Software Security Features Netskope™ Cloud Access Security Broker (CASB) Netskope™ Secure Web Gateway Netskope™ Zero Trust Private Access Vmware® Carbon Black Endpoint Standard Vmware® Carbon Black Endpoint Standard + Secureworks® Taegis™ XDR Bundle Vmware® Carbon Black Endpoint Advanced Vmware® Carbon Black Endpoint Enterprise Secureworks® Taegis™ XDR VMware® Workspace ONE Standard VMware® Workspace ONE Advanced VMware® Workspace ONE Enterprise Absolute® Endpoint - Visibility Absolute® Endpoint - Control Absolute® Endpoint - Resilience	TPM 2.0 FIPS-140-2 Certified / TCG Certified Optional fingerprint reader in power button (Windows Hello compliant) Optional Face IR camera (Windows Hello compliant) Network based Contextual Privacy Camera Shutter Chassis Intrusion Detection Dell SafeBIOS Dell SafeID Dell Client Command Suite Factory Installed Dell Command Update Dell Performance Dell SupportAssist for home PCs Dell Trusted Devices Additional Software Security Features Netskope™ Cloud Access Security Broker (CASB) Netskope™ Secure Web Gateway Netskope™ Zero Trust Private Access Vmware® Carbon Black Endpoint Standard Vmware® Carbon Black Endpoint Standard + Secureworks® Taegis™ XDR Bundle Vmware® Carbon Black Endpoint Advanced Vmware® Carbon Black Endpoint Enterprise Secureworks® Taegis™ XDR VMware® Workspace ONE Standard VMware® Workspace ONE Advanced VMware® Workspace ONE Enterprise Absolute® Endpoint - Visibility Absolute® Endpoint - Control Absolute® Endpoint - Resilience	TPM 2.0 FIPS-140-2 Certified / TCG Certified Optional fingerprint reader in power button (Windows Hello compliant) Optional Face IR camera (Windows Hello compliant) Network based Contextual Privacy Camera Shutter Chassis Intrusion Detection Dell SafeBIOS Dell SafeID Dell Client Command Suite Factory Installed Dell Command Update Dell Performance Dell SupportAssist for home PCs Dell Trusted Devices Additional Software Security Features Netskope™ Cloud Access Security Broker (CASB) Netskope™ Secure Web Gateway Netskope™ Zero Trust Private Access Vmware® Carbon Black Endpoint Standard Vmware® Carbon Black Endpoint Standard + Secureworks® Taegis™ XDR Bundle Vmware® Carbon Black Endpoint Advanced Vmware® Carbon Black Endpoint Enterprise Secureworks® Taegis™ XDR VMware® Workspace ONE Standard VMware® Workspace ONE Advanced VMware® Workspace ONE Enterprise Absolute® Endpoint - Visibility Absolute® Endpoint - Control Absolute® Endpoint - Resilience
<b>DOCKING<sup>1</sup></b>	(Docks are optional, sold separately) Dell Thunderbolt™ Dock - WD22TB4 Dell Performance Dock - WD19DCS Dell USB-C Dock - WD19S Dell Universal Dock - UD22 Dell Dual Charge Dock - HD22Q	(Docks are optional, sold separately) Dell Thunderbolt™ Dock - WD22TB4 Dell Performance Dock - WD19DCS Dell USB-C Dock - WD19S Dell Universal Dock - UD22 Dell Dual Charge Dock - HD22Q	(Docks are optional, sold separately) Dell Thunderbolt™ Dock - WD22TB4 Dell Performance Dock - WD19DCS Dell USB-C Dock - WD19S Dell Universal Dock - UD22 Dell Dual Charge Dock - HD22Q

# 3340/3440/3540

**FEATURE TECHNICAL SPECIFICATION**

<b>MULTIMEDIA<sup>1</sup></b>	<p>FHD+IR Camera (2-in-1 only) Experience: Temporal Noise Reduction (TNR) + Camera Shutter</p> <p>FHD RGB Camera (Laptop or 2-in-1) Experience: Temporal Noise Reduction (TNR) + Camera Shutter</p> <p>HD RGB Camera (Laptop only) Experience: Temporal Noise Reduction (TNR) + Camera Shutter</p> <p>2 x Speakers, Waves MaxxAudio Pro 2 x Noise Canceling Microphones Intelligent Audio with Neural Noise Cancellation Universal Audio Jack™</p>	<p>FHD+IR Camera Experience: Temporal Noise Reduction (TNR) + Camera Shutter</p> <p>FHD RGB Camera Experience: Temporal Noise Reduction (TNR) + Camera Shutter</p> <p>HD RGB Camera Experience: Temporal Noise Reduction (TNR) + Camera Shutter</p> <p>2 x Speakers, Waves MaxxAudio Pro 2 x Noise Canceling Microphones Intelligent Audio with Neural Noise Cancellation Universal Audio Jack</p>	<p>FHD+IR Camera Experience: Temporal Noise Reduction (TNR) + Camera Shutter</p> <p>FHD RGB Camera Experience: Temporal Noise Reduction (TNR) + Camera Shutter</p> <p>HD RGB Camera Experience: Temporal Noise Reduction (TNR) + Camera Shutter</p> <p>2 x Speakers, Waves MaxxAudio Pro 2 x Noise Canceling Microphones Intelligent Audio with Neural Noise Cancellation Universal Audio Jack</p>
<b>BATTERY OPTIONS<sup>1,5</sup></b>	<p>3-cell, 42 Wh, Li-ion, ExpressCharge 1.0™ Capable</p> <p>3-cell, 54 Wh, Li-ion, ExpressCharge 1.0™ Capable</p> <p>3-cell, 42 Wh, Li-ion, Long Life Cycle, ExpressCharge 1.0™ Capable</p> <p>3-cell, 54 Wh, Li-ion, Long Life Cycle, ExpressCharge 1.0™ Capable</p>	<p>3-cell, 42 Wh, Li-ion, ExpressCharge 1.0™ Capable</p> <p>3-cell, 54 Wh, Li-ion, ExpressCharge 1.0™ Capable</p> <p>3-cell, 42 Wh, Li-ion, Long Life Cycle, ExpressCharge 1.0™ Capable</p> <p>3-cell, 54 Wh, Li-ion, Long Life Cycle, ExpressCharge 1.0™ Capable</p>	<p>3-cell, 42 Wh, Li-ion, ExpressCharge 1.0™ Capable</p> <p>3-cell, 54 Wh, Li-ion, ExpressCharge 1.0™ Capable</p> <p>3-cell, 42 Wh, Li-ion, Long Life Cycle, ExpressCharge 1.0™ Capable</p> <p>3-cell, 54 Wh, Li-ion, Long Life Cycle, ExpressCharge 1.0™ Capable</p>
<b>POWER OPTIONS<sup>1</sup></b>	<p>65W adapter, Type-C</p> <p>65W adapter, 4.5mm barrel</p> <p>60W adapter, Type-C, Ultralight Mini Adapter (Japan only)</p>	<p>65W adapter, Type-C</p> <p>65W adapter, 4.5mm barrel</p> <p>60W adapter, Type-C, Ultralight Mini Adapter (Japan only)</p>	<p>65W adapter, Type-C</p> <p>65W adapter, 4.5mm barrel</p> <p>60W adapter, Type-C, Ultralight Mini Adapter (Japan only)</p>
<b>CONNECTIVITY OPTIONS<sup>1</sup></b>	<p>Microsoft Modern Standby compliant</p> <p><b>Wireless LAN Options<sup>2</sup>:</b></p> <p>Realtek Wi-Fi 6 RTL8852BE, 2x2, Bluetooth<sup>22</sup></p> <p>Intel® Wi-Fi 6E (6GHz) AX211, 2x2, Bluetooth<sup>22</sup></p>	<p>Microsoft Modern Standby compliant</p> <p><b>Wireless LAN Options<sup>2</sup>:</b></p> <p>Realtek Wi-Fi 6 RTL8852BE, 2x2, Bluetooth<sup>22</sup></p> <p>Intel® Wi-Fi 6E (6GHz) AX211, 2x2, Bluetooth<sup>22</sup></p> <p><b>Mobile Broadband Options:<sup>9</sup></b></p> <p>Intel® XMM™ 7560R+ Global LTE-Advanced Cat 16 WWAN (DW5823e), (eSIM capable)</p> <p>Intel® XMM™ 7560R+ LTE-Advanced Cat 16 WWAN (DW5823e) China, Turkey</p> <p>Intel® XMM™ 7560R+ LTE-Advanced Cat 16 WWAN (DW5823e), eSIM, AT&amp;T, Verizon, T-Mobile, US only</p>	<p>Microsoft Modern Standby compliant</p> <p><b>Wireless LAN Options<sup>2</sup>:</b></p> <p>Realtek Wi-Fi 6 RTL8852BE, 2x2, Bluetooth<sup>22</sup></p> <p>Intel® Wi-Fi 6E (6GHz) AX211, 2x2, Bluetooth<sup>22</sup></p> <p><b>Mobile Broadband Options:<sup>9</sup></b></p> <p>Intel® XMM™ 7560R+ Global LTE-Advanced Cat 16 WWAN (DW5823e), (eSIM capable)</p> <p>Intel® XMM™ 7560R+ LTE-Advanced Cat 16 WWAN (DW5823e) China, Turkey</p> <p>Intel® XMM™ 7560R+ LTE-Advanced Cat 16 WWAN (DW5823e), eSIM, AT&amp;T, Verizon, T-Mobile, US only</p>
<b>PORTS, SLOTS &amp; CHASSIS<sup>1</sup></b>	<p>1x USB Type-C 3.2 Gen2 with Power Delivery &amp; DisplayPort 1.4</p> <p>2x USB 3.2 Gen1 (1x with PowerShare)</p> <p>1x HDMI 1.4</p> <p>1x Optional Touch Fingerprint Reader in Power Button</p> <p>1x Universal Audio Jack</p> <p>1x barrel power adapter port</p> <p>Wedge Shaped Lock Slot</p>	<p>1x USB Type-C 3.2 Gen2 with Power Delivery &amp; DisplayPort 1.4</p> <p>3x USB 3.2 Gen1 (1x with PowerShare)</p> <p>1x HDMI 1.4</p> <p>1x RJ-45 Ethernet port</p> <p>1x Optional external uSIM card tray (WWAN only)</p> <p>1x Optional Touch Fingerprint Reader in Power Button</p> <p>1x Universal Audio Jack</p> <p>1x barrel power adapter port</p> <p>Wedge Shaped Lock Slot</p>	<p>1x USB Type-C 3.2 Gen2 with Power Delivery &amp; DisplayPort 1.4</p> <p>3x USB 3.2 Gen1 (1x with PowerShare)</p> <p>1x HDMI 1.4</p> <p>1x RJ-45 Ethernet port</p> <p>1x Optional external uSIM card tray (WWAN only)</p> <p>1x Optional Touch Fingerprint Reader in Power Button</p> <p>1x Universal Audio Jack</p> <p>1x barrel power adapter port</p> <p>Wedge Shaped Lock Slot</p>
<b>TOUCHPAD</b>	Precision Clickpad with multi-touch gesture support	Precision Clickpad with multi-touch gesture support	Precision Clickpad with multi-touch gesture support
<b>DIMENSIONS &amp; WEIGHT<sup>1,13</sup></b>	<p>Width: 306.0mm / 12.0in</p> <p>Depth: 210.9mm / 8.3in</p> <p>Height (front): 16.8mm / 0.66in</p> <p>Height (rear): 18.6mm / 0.73in Laptop, 18.7mm / 0.74in 2-in-1</p> <p>Screen to Body Ratio: 82.3% Laptop, 82.8% 2-in-1</p> <p>Laptop Starting weight: 1.25kg / 2.76lbs</p> <p>2-in-1 Starting weight: 1.35kg / 2.98lbs</p>	<p>Width: 322.2mm / 12.7in</p> <p>Depth: 219.4mm / 8.6in</p> <p>Height (front): 17.7mm / 0.70in</p> <p>Height (rear): 19.4mm / 0.76in</p> <p>Screen to Body Ratio: 84.5%</p> <p>Starting weight: 1.54kg / 3.40lbs</p>	<p>Width: 359.0mm / 14.1in</p> <p>Depth: 239.7mm / 9.4in</p> <p>Height (front): 18.1mm / 0.71in</p> <p>Height (rear): 20.4mm / 0.80in</p> <p>Screen to Body Ratio: 85.3%</p> <p>Starting weight: 1.81kg / 3.99lbs</p>
<b>REGULATORY AND ENVIRONMENTAL COMPLIANCE<sup>1</sup></b>	<p>Laptop: Regulatory Model: P167G; Regulatory Type: P167G001</p> <p>2-in-1: Regulatory Model: P168G; Regulatory Type: P168G001</p> <p>ENERGY STAR</p> <p>EPEAT Registered. For specific country participation and rating, please see <a href="http://www.epeat.net">www.epeat.net</a></p> <p>TCO compliant configurations available</p> <p>Halogen-Free/ Arsenic-Free</p> <p>BFR/PVC free<sup>8</sup></p>	<p>Regulatory Model: P169G; Regulatory Type: P169G001</p> <p>ENERGY STAR</p> <p>EPEAT Registered. For specific country participation and rating, please see <a href="http://www.epeat.net">www.epeat.net</a></p> <p>TCO compliant configurations available</p> <p>Halogen-Free/ Arsenic-Free</p> <p>BFR/PVC free<sup>8</sup></p>	<p>Regulatory Model: P170G; Regulatory Type: P170G001</p> <p>ENERGY STAR</p> <p>EPEAT Registered. For specific country participation and rating, please see <a href="http://www.epeat.net">www.epeat.net</a></p> <p>TCO compliant configurations available</p> <p>Halogen-Free/ Arsenic-Free</p> <p>BFR/PVC free<sup>8</sup></p>

# 3340/3440/3540

**FEATURE TECHNICAL SPECIFICATION**

<p><b>INPUT<sup>1</sup></b></p>	<p>Optional 10-Finger Touch Display Microsoft® Precision Clickpad Spill Resistant Non-Backlit Keyboard Spill Resistant Backlit Keyboard Dell Premier Rechargeable Active Pen - PN7522W (optional, sold separately, 2-in-1 only) Dell Active Pen - PN5122W (optional, sold separately, 2-in-1 only)</p>	<p>Optional 10-Finger Touch Display Microsoft® Precision Clickpad Spill Resistant Non-Backlit Keyboard Spill Resistant Backlit Keyboard</p>	<p>Optional 10-Finger Touch Display Microsoft® Precision Clickpad Spill Resistant Non-Backlit Keyboard Spill Resistant Backlit Keyboard</p>
<p><b>SENSORS<sup>1</sup></b></p>	<p>Gyroscope (2-in-1 only) eCompass/Magnetometer (2-in-1 only) Accelerometer (2-in-1 only) Wake/Power on with lid open</p>	<p>GPS (via WWAN Card only) Adaptive Thermal Performance (Discrete graphics only) Wake/Power on with lid open</p>	<p>GPS (via WWAN Card only) Adaptive Thermal Performance (Discrete graphics only) Wake/Power on with lid open</p>
<p><b>SYSTEMS MANAGEMENT<sup>1</sup></b></p>	<p>Dell Client Command Suite available (dell.com/command), Factory Installed Dell Client Command   Update, Dell Command   Power Manager   Dell Optimizer</p>	<p>Dell Client Command Suite available (dell.com/command), Factory Installed Dell Client Command   Update, Dell Command   Power Manager   Dell Optimizer</p>	<p>Dell Client Command Suite available (dell.com/command), Factory Installed Dell Client Command   Update, Dell Command   Power Manager   Dell Optimizer</p>
<p><b>WARRANTY AND SERVICE<sup>1</sup></b></p>	<p>Limited Hardware Warranty<sup>4</sup>, Standard 1 year Mail-in Service after Remote Diagnosis<sup>10</sup>, optional 3, 4 and 5 year hardware warranty extensions, and 3-5 year Dell ProSupport contracts available<sup>11</sup></p>	<p>Limited Hardware Warranty<sup>4</sup>, Standard 1 year Mail-in Service after Remote Diagnosis<sup>10</sup>, optional 3, 4 and 5 year hardware warranty extensions, and 3-5 year Dell ProSupport contracts available<sup>11</sup></p>	<p>Limited Hardware Warranty<sup>4</sup>, Standard 1 year Mail-in Service after Remote Diagnosis<sup>10</sup>, optional 3, 4 and 5 year hardware warranty extensions, and 3-5 year Dell ProSupport contracts available<sup>11</sup></p>
<p><b>PERIPHERAL ECOSYSTEM<sup>1</sup></b></p>	<p>Powerful accessories designed and tested for Latitude 3340 enable seamless productivity to work from anywhere.</p>	<p>Powerful accessories designed and tested for Latitude 3440 enable seamless productivity to work from anywhere.</p>	<p>Powerful accessories designed and tested for Latitude 3540 enable seamless productivity to work from anywhere.</p>
<p><b>SUSTAINABILITY</b></p>	<p>30% post-consumer recycled (PCR) plastic in lid/top cover 50% PCR plastic in LCD bezel 30% PCR plastic in bottom cover 50% PCR plastic in battery frame 50% PCR plastic in 65W Type-C adapter 30% PCR plastic in 60W Type-C adapter (Japan only) Packaging made from 100% recycled or renewable materials</p>	<p>30% PCR plastic in palmrest 50% PCR plastic in LCD bezel 50% PCR plastic in bottom cover 50% PCR plastic in battery frame 50% PCR plastic in 65W Type-C adapter 30% PCR plastic in 60W Type-C adapter (Japan only) Packaging made from 100% recycled or renewable materials</p>	<p>30% PCR plastic in palmrest 50% PCR plastic in LCD bezel 50% PCR plastic in bottom cover 50% PCR plastic in battery frame 50% PCR plastic in 65W Type-C adapter 30% PCR plastic in 60W Type-C adapter (Japan only) Packaging made from 100% recycled or renewable materials</p>



**Product Disclosures:**

- 1 Offering may vary by country and by configuration and operating system.
- 2 System with single channel memory is shown as Intel UHD graphics. System with dual channel memory is shown as Intel Iris Xe Graphics.
- 3 GB means 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.
- 4 Limited Hardware Warranty: For copy of Limited Hardware Warranty, write Dell USA LP, Attn: Warranties, One Dell Way, Round Rock, TX 78682 or see [www.dell.com/warranty](http://www.dell.com/warranty).
- 5 The stated Watt Hour (Whr) is not an indication of battery life.
- 6 Intel Rapid Storage Technology requires a HDD, mSATA, or an SSD, as primary storage device and Windows OS required
- 7 Wireless module available only at time of system purchase. Wi-Fi6e (supporting 6GHz spectrum) requires Windows 11 Operating system and compatible router. Router requires a separate purchase. Wi-Fi 6E connectivity is only available in selected locations. Check availability with your service provider.
- 8 Dell Latitude 3340, 3440, 3540 are brominated flame retardant free (BFR-free) and polyvinyl chloride free (PVC-free); meeting the definition of BFR-/PVC-free as set forth in the INEMI Position Statement on the 'Definition of Low-Halogen Electronics (BFR-/CFR-/PVC-free)'. Plastic parts contain less than 1,000 ppm (0.1%) of bromine (if the Br source is from BFRs) and less than 1,000 ppm (0.1%) of chlorine (if the Cl source is from CFRs or PVC or PVC copolymers). All printed circuit board (PCB) and substrate laminates contain bromine/chlorine total less than 1,500 ppm (0.15%) with a maximum chlorine of 900 ppm (0.09%) and maximum bromine being 900 ppm (0.09%).
- 9 Mobile Broadband antenna and module available only at time of system purchase. Mobile Broadband subject to service provider's broadband subscription and coverage area; additional charges apply. eSim technology subject to regional carrier/service provider availability & service provider's data plan subscription; additional charges apply. Check availability with your service provider.
- 10 Mail-in Service after Remote Diagnosis: Remote Diagnosis is determination by online/phone technician of cause of issue; may involve customer access to inside of system and multiple or extended sessions. If issue is covered by Limited Hardware Warranty ([www.dell.com/warranty](http://www.dell.com/warranty)) and not resolved remotely, technician and/or part will be dispatched, usually within 1 business day following completion of Remote Diagnosis. Availability varies. Other conditions apply.
- 11 Dell Services: Availability and terms of Dell Services vary by region. For more information, visit [www.dell.com/servicedescriptions](http://www.dell.com/servicedescriptions).
- 12 GB means 1 billion bytes and TB equals 1 trillion bytes; significant system memory may be used to support graphics, depending on system memory size and other factors.
- 13 Weights vary depending on configuration and manufacturing variability.
- 14 Based on Dell Internal Analysis, November 2022.
- 15 Based on Dell analysis comparing against competitive personal conferencing speakerphones, September 2021.
- 16 Based on Dell Internal analysis, February 2019.
- 17 Based on Dell Internal analysis of competitive products using publicly available data as of February 2019. Power Delivery of up to 130W when used with compatible Dell system. Expresscharge Boost is available on select Dell systems.
- 18 Based on Dell analysis, October 2022. Dell Optimizer not available in OptiPlex 3000 series, Latitude Chromebook Enterprise, and Linux-based devices. Feature availability and functionality may vary by model. For more details visit: <https://www.delltechnologies.com/asset/en-us/solutions/business-solutions/technical-support/dell-optimizer-features-availability-matrix.pdf.external>
- 19 Simultaneous multi-network connection (or Connection based teaming) is a new connectivity feature under ExpressConnect. It simultaneously sends and receives data and video traffic using two or more wired or wireless connections. Simultaneous multi-network connection works with wired and wireless networks. For select Dell platforms, a USB Wi-Fi adapter is required to connect a second Wi-Fi network. Based on Dell internal analysis, September 2021.
- 20 WiFi 6E compatible router required. Router requires separate purchase. WiFi 6E connectivity only available in select countries. Check availability with your service provider.
- 21 New packaging is made with up to 94.8% recycled content and up to 64.4% renewable content in the form of renewable paper fibers. Material makeup varies by product and size. Excludes optional items added to order and included in box. Paper packaging materials can be recycled via municipal recycling, where available. System bag is made from recycled plastic and can be recycled along with other thin plastics.
- 22 The Bluetooth wireless card version may vary depending on the operating system that is installed on your computer.



# Certificate of Registration of Environmental Management System to ISO 14001:2015

The National Standards Authority of Ireland Inc. certifies that:

**Dell Technologies**  
**One Dell Way**  
**Round Rock, TX 78682**  
**USA**

has been assessed and deemed to comply with the requirements of the above standard in respect of the scope of operations given below:

---

**The Development, Manufacture, Supply, and  
Takeback Services of Computers, Storage and  
Server Products and Technology Products.**

**Additional sites covered under this multi-site certification are listed on the  
Annex. (File No. 14.5000)**

Geraldine Larkin  
Chief Executive Officer

Lisa Greenleaf  
Technical Operations Officer

---

Registration Number: 14.5000  
Certification Granted: January 25, 2011  
Effective Date: January 25, 2023  
Expiry Date: January 24, 2026



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National Standards Authority of Ireland Inc., 20 Trafalgar Square, Nashua, New Hampshire, NH 03063, USA T +1 603 882 4412



# NSAI

## Annex to Certificate Number: 14.5000

### Scope of Registration:

**The Development, Manufacture, Supply, and Takeback Services of Computers, Storage and Server Products and Technology Products.**

#### Activity

#### Location

Central Function, Manufacture and Supply, Takeback Services, Product Development

Dell Technologies  
One Dell Way  
Round Rock, TX 78682  
USA  
File No.: 14.5000

Manufacture and Supply

Dell Technologies  
Dell Computadores do Brasil Ltda.  
(BRH1)  
Av da. Emancipação, 5000  
Hortolândia  
SP 13.184-654  
Brasil  
File No.: 14.5000/R1/A

Global Product Environmental Lifecycle Management

Dell Inc. (Product Development)  
One Dell Way  
Round Rock, TX 78682  
USA  
File No.: 14.5000/R1/S

Global Product Environmental Lifecycle Management

Dell Inc. (Takeback Services)  
One Dell Way  
Round Rock, Texas 78682  
USA  
File No.: 14.5000/R1/EE

Manufacture and Supply

Dell Technologies  
EMC Corporation  
5800 Technology Drive  
Apex, NC 27539  
USA  
File No.: 14.5000/R1/QQ



# NSAI

## Annex to Certificate Number: 14.5000

### Scope of Registration:

**The Development, Manufacture, Supply, and Takeback Services of Computers, Storage and Server Products and Technology Products.**

#### Activity

#### Location

Manufacture and Supply

Dell Technologies  
EMC Corporation  
50 Constitution Blvd  
Franklin, MA 02038  
USA  
File No.: 14.5000/R1/VV

Manufacture and Supply

Dell Technologies  
Dell Products (Poland) Sp. z.o.o.  
Informatyczna Street No 1  
92-410 Lodz  
Poland  
File No.: 14.5000/R2/DD

Manufacture and Supply

Dell Technologies  
EMC Information Systems International  
Unlimited Company  
Unit B IDA Industrial Estate  
Ovens  
Co. Cork  
Ireland  
File No.: 14.5000/R2/EE

Manufacture and Supply

Dell Technologies  
Dell International Services India, Pvt. Ltd.  
Sriperumbudur Hi-Tech SEZ  
SIPCOT Industrial Park  
Sriperumbudur Phase-II  
Sunguvarchatram Post  
Sirumangadu Village  
Sriperumbudur Taluk  
Kancheepuram  
Tamil Nadu 602106  
India  
File No.: 14.5000/R3/E



# NSAI

**Annex to Certificate Number: 14.5000**

## **Scope of Registration:**

**The Development, Manufacture, Supply, and Takeback Services of Computers, Storage and Server Products and Technology Products.**

### **Activity**

### **Location**

Manufacture and Supply

Dell Technologies  
Dell Global Business Center SDN BHD  
(APCC)  
Plot 76  
Mukim 11  
Bukit Tengah Industrial Park  
14000 Bukit Mertajam  
Pulau Pinang  
Malaysia  
File No.: 14.5000/R3/N

Manufacture and Supply

Dell Technologies  
Dell (China) Co. Ltd. (CCC2)  
Dell (Xiamen) Co. Ltd. (CCC4)  
Nos. 2388 & 2366 Jinshang Road  
Information Photo-Electronic Park  
Xiamen Torch Hi-Tech Zone  
Fujian  
China 361011  
File No.: 14.5000/R3/T

Manufacture and Supply

Dell Technologies  
Dell (Chengdu) Company Limited  
No. 800 Tianqin Road  
Hi-Tech Zone West  
Chengdu  
Sichuan 611731  
File No.: 14.5000/R3/NN

**Verified by:  
Technical Operations Officer**

## Do No Significant Harm

“Do No Significant Harm” (DNSH) is a criterion to be used by **EU Member States** in assessing their Recovery and Resilience Facility (RRF), as detailed in Article 17 of the Taxonomy Regulation.

Member States are required to complete RRFs to consider the lifecycle impacts of major measures/projects according to six criteria:

- Climate change mitigation
- Climate change adaptation
- The sustainable use and protection of water and marine resources
- The circular economy, including waste prevention and recycling
- Pollution prevention and control to air, water or land
- The protection and restoration of biodiversity and ecosystems

The use of Dell products and solutions within a major program in-scope for the Recovery and Resilience Facility (RRF) would support alignment with the requirements of “Do No Significant Harm” (DNSH), in that:

- Program should contribute substantially to (at least) one of six DNSH criteria.
- Program will do no significant harm on any remaining criteria as well as aligning with social safeguards (UN Guiding Principles including ILO core conventions and OECD guidelines).

By integrating sustainability across its business, Dell can demonstrate attributes across all six criteria set out in the DNSH. Examples of Dell’s alignment across the criteria is below, which can be considered by Member States in determining DNSH status, as part of a wider RRF assessment\*.

### Climate change mitigation

Dell is working towards achieving ambitious 2030 GHG reduction targets:

- To reach net zero greenhouse gas emissions across Scopes 1, 2 and 3 by 2050.
- To reduce Scopes 1 and 2 greenhouse gas (GHG) emissions by 50% by 2030.
- To reduce absolute scope 3 GHG emissions from purchased goods and services by 45% by 2030.
- To reduce absolute scope 3 GHG emissions associated with the use of sold products by 30% by 2030.

More information on these goals and the activities we are carrying out to work towards the goals is available in our [most recent ESG Report](#), on pages 45-51.

### The sustainable use and protection of water and marine resources

Dell is working towards goals to reduce water consumption by 2030:

- To reduce freshwater use in our Dell Technologies-owned facilities by 25% in locales with high water stress.
- To reduce freshwater use in our Dell Technologies-owned facilities by 10% elsewhere.

More information on these goals and the activities we are carrying out to work towards the goals is available in our [most recent ESG Report](#), on pages 28, 56, and 128.



### The circular economy, including waste prevention and recycling

- Dell has several initiatives underway to contribute to the circular economy. Our registration to relevant eco-labels such as Energy Star and EPEAT are [evidence of this](#).
- There is also more relevant information on our contribution to this factor in our [Accelerating the Circular Economy](#) section of our website and in our [most recent ESG Report](#), on pages 52-54.

### Pollution prevention and control to air, water, or land

- Dell has several programs in place to contribute to this factor. For example, our initiative to incorporate ocean-bound plastic into packaging and products. Refer to pages 54, 65, of our [most-recent ESG Report](#).

Dell's products have no significant harm on any remaining criteria and align with social safeguards (UN Guiding Principles including ILO core conventions and OECD guidelines).

[Dell's Human Rights Policy](#) describes our commitment to human rights, which includes our commitment with the UN Guiding Principles and the and the International Labour Organization's (ILO's) Declaration on Fundamental Principles and Rights at Work.

Dell is also a founding member and follows the [Responsible Business Alliance \(RBA\)'s Code of Conduct](#), which also reference the UN Guiding Principles, the ILO's core conventions, and references the OECD guidelines. As a member, we maintain the Code's standards through our [supplier principles](#) and undertake robust due diligence to support our supply chain's conformance with our requirements.

# Display con carrello e OPS

DS-D5B65RB/A

Monitor Interattivo 65 Pollici



Il Monitor interattivo di Hikvision integra sistema operativo Android, lavagna, sistema audio, pannello ad alta risoluzione 4K, schermo Touch e infrarossi e intuitiva interfaccia utente. Elaborazione di informazioni multimediali e collegamento di rete forniscono agli utenti varie funzionalità come scrittura, annotazione e condivisione mirroring multi schermo fino a 4 utenti. Il Monitor interattivo è utilizzato principalmente per formazione o altri eventi in scuole, uffici, sale riunioni, aule multimediali, sale espositive. È possibile inoltre utilizzare il monitor interattivo per effettuare videoconferenze attraverso applicazioni dedicate e utilizzando accessori opzionali come WebCam, unità Audio e OPS.

#### Display 4K Maggiori dettagli e Robustezza

Il pannello con risoluzione 4K migliora i dettagli dell'immagine ed è protetto da un vetro antiriflesso ed antiurto in modo da poter essere utilizzato in ogni ambiente.

#### Tocco istantaneo e ultra fine

Il Touch screen ad infrarossi permette una scrittura fluida con la precisione del tocco di 1 mm e l'ottimizzazione intelligente del tratto rende tutto più semplice.

#### Scrittura e Annotazione senza confini

Il sistema di lavagna WhiteBoard può avere fogli infiniti e fino a 45 punti di contatto simultanei, permettendo l'interazione di più persone contemporaneamente. L'applicazione Commento, integrata, consente annotazioni su qualsiasi sfondo o App con possibilità di salvataggio istantaneo.

#### Condivisione one-touch per la riunione

La condivisione delle annotazioni può avvenire tramite codice QR o e-mail, garantendo maggiori concentrazioni e maggiore efficienza durante le lezioni/presentazioni.

#### Mirroring wireless dello schermo

Tramite l'App Wondercast è possibile condividere lo schermo di un computer Windows e MacOS, Tablet e Mobile phone iOS e Android in modalità Mirroring senza bisogno di collegare nessun cavo. È possibile inoltre condividere via Mirroring fino a 4 dispositivi contemporaneamente per confrontare idee e soluzioni dividendo lo schermo in 2 o 4 parti.

La modalità Reverse Mirroring, lo spettatore, permette invece di inviare quanto visibile sul Monitor interattivo sui dispositivi di chi assiste alla lezione/presentazioni.

#### Lavoro Senza Limite di Distanza

Videoconferenza disponibile tramite applicazioni dedicate utilizzando accessori opzionali come WebCam, unità Audio e OPS.

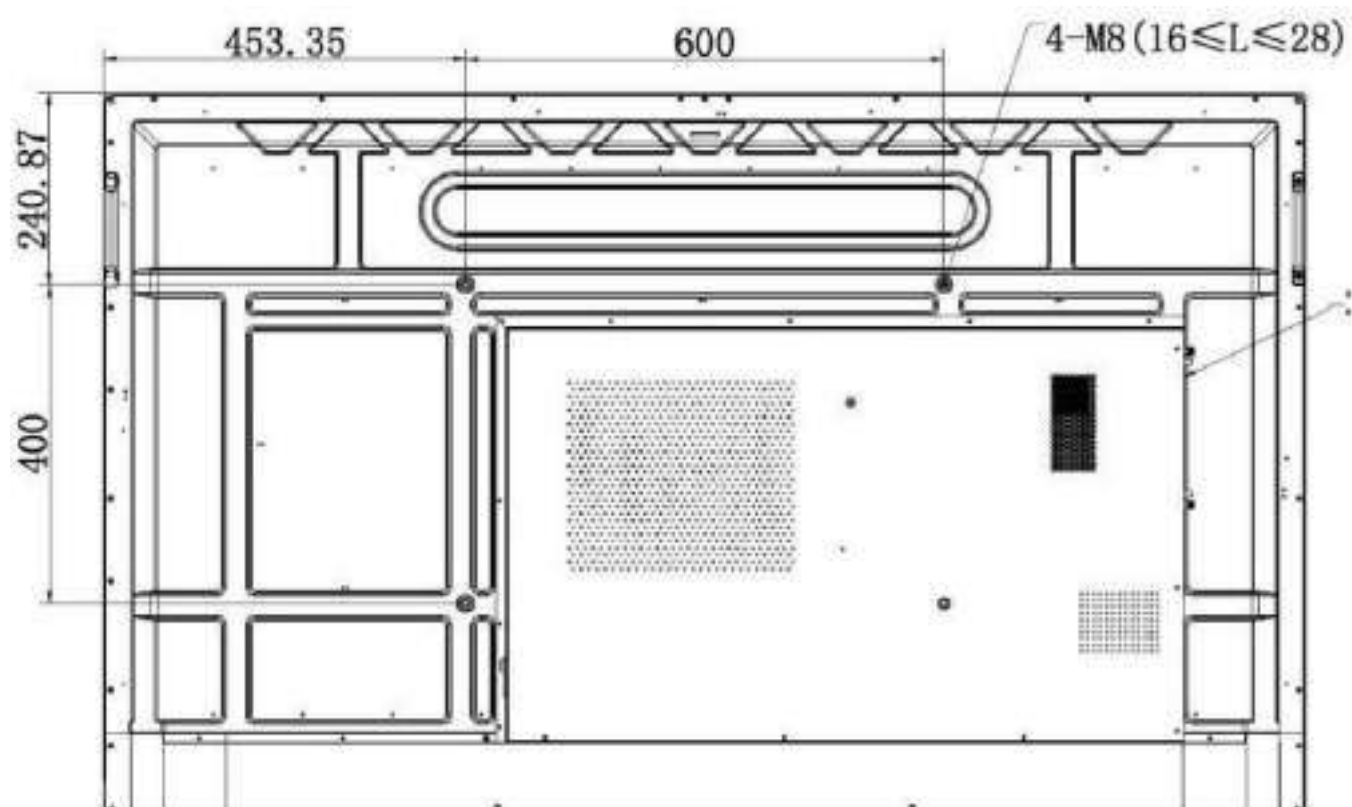


▪ Specifiche

<b>Modello</b>	<b>DS-D5B65RB/A</b>	
<b>Display</b>	Dimensioni	65" con Retroilluminazione a LED
	Tipologia Retroilluminazione	DLED - Direct LED
	Pixel Pitch	0.124(H) x 0.372(V) mm
	Risoluzione	4K Ultra HD - 3841 x 2160 @60 Hz
	Rapporto di visualizzazione	16:9
	Luminosità	350 cd/m <sup>2</sup> con sensore luce ambientale
	Angolo di visione	178°(H)/178°(V)
	Profondità di colore	10 bit, ~1,07 miliardi
	Rapporto Contrasto	5000:1
	Tempo di Risposta	6 ms
	Refresh Rate	60 Hz
	Gamut	90% NTSC(IEC 931)(Typ.)
<b>Sistema</b>	Sistema Operativo	Android 8.0
	Processori	4-core A73 x 2 - A53 x 2, 1.5 GHz
	Memoria	3 GB
	Supporto Archiviazione	32 GB
	Interfaccia di rete	100 Mbps NIC, con supporto Routing
<b>Touch Screen</b>	Tipologia	Touch screen a Infrarossi (IR)
	Vetro	Vetro temperato liscio, antiriflesso e antideflagrante. Durezza vetro: livello 7 MOHS spessore vetro 4mm
	Punti	fino a 45 punti multi-touch
	Tempo di risposta	< 10 ms
	Precisione	± 1 mm (≥ 90% touching area)
	Laminazione	Non-laminato
<b>Interfacce</b>	Ingressi Video & Audio Incol	2x HDMI, Max 4K @60 Hz, 1x Linea
	Uscite Video & Audio	1x HDMI, Max 4K @60 Hz, 1x Linea
	Interfaccia di rete	2x RJ45 (porta 100 Mbps) / Wi-Fi IEEE 802.11a/b/g/n/ac (WPA, WPA2 PSK) 2,4GHz/5GHz
	Interfacce Dati	2x USB Tipo-A Frontali, 2x USB Tipo-A - 1x USB Tipo-B Touch Posteriori
	Storage	Intel Storage
	Interfaccia di Controllo	1x RS-232
<b>Altre funzioni</b>	Audio	Altoparlanti integrati 2 x 16 W
	Bluetooth & NFC	Modulo BLE (Bluetooth Low Energy) con supporto Bluetooth 5.0 e precedenti
<b>Ambiente di lavoro</b>	Temperatura di lavoro	da 0 °C a 40 °C
	Umidità di lavoro	da 10% a 90%   Umidità Relativa
	LifeTime	50,000h 24/7
<b>Alimentazione</b>	Tensione	da 100 a 270 VAC, 50/60 Hz
	Consumo	< 250 W Max
	Consumo in StandBy	0.5 W

Generale	Dimensioni Imballo (L x H x P)	1507 x 905 x 68 mm
	Dimensioni Prodotto (L x H x P)	1667 x 1061 x 237 mm
	Peso Netto	39.86kg Senza staffe
	Peso Lordo	50.19 kg
	Accessori inclusi	2 perne, staffa da parete e Cavo Alimentazione
Certificazioni	CE	LVD, EMC, RED, ERP, CB

## • Dimensioni



Distributed by

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Sales.indonesia@hikvision.com

**Hikvision Colombia**  
sales.colombia@hikvision.com



## DS-D5AC9C5-8S2 OPS Module



- Intel UHD Graphic, support H.265 and 4K resolution
- Support M.2 nvme system disk quick start
- Support 3 USB 3.0 ports, 3 USB2.0 ports, 1 HDMI port, 1 DP interface , 1 Type-C port
- Support dual channel memory
- Support Wi-Fi IEEE 802.11 a/b/g/n/ac

## ▪ Specification

Built-in System	
Processor	Intel® Core i5 9400H
CPU Clock Speed	2.5GHz
Platform Architecture	Intel® Coffeelake
PCH	Intel® Z370
Graphics	Intel® UHD Graphics 630
Memory	8G
Storage	256G
NIC	Integrated 10/100/1000M Adaption
Cooling System	Single Brass & Single Fan
Interface	
Network Interface	RJ45×1
Data Transmission Interface	Bluetooth 4.2
Antenna	2
Video Output	HDMI×1, DP×1
Power	
Input Voltage	12V-19V DC
Max. Consumption	60W
Standby Consumption	0.5W
Working Environment	
Storage Temperature	-20°C - 70°C
Storage Humidity	10%-90%
Working Temperature	0°C - 40°C
Working Humidity	10%-90%
General	
Color	Black
Product Dimensions (W × H × D)	180×195×30mm
Net Weight	About 1.24kg

## ▪ Available Model

DS-D5AC9C5-8S2(海外标配),DS-D5AC9C5-8S2(9400H),DS-D5AC9C5-8S2(9400H)/SHERWOOD



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Corporate Channel



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Erion Weee



## ATTESTATO DI ADESIONE 2023

*per la gestione responsabile e sostenibile dei RAEE*

**HIKVISION ITALY SRL**  
**CF. 07757250969**

per l'anno 2023 è Socio di **Erion WEEE**  
per la gestione e lo smaltimento dei  
Rifiuti da Apparecchiature Elettriche ed Elettroniche (RAEE),  
adempiendo così agli obblighi del **Decreto Legislativo 49/2014**.

**Erion WEEE**, Sistema Collettivo tra i più autorevoli e riconosciuti a livello nazionale ed europeo, garantisce per **HIKVISION ITALY SRL** che tali rifiuti siano gestiti e riciclati in maniera corretta, tracciata e ambientalmente responsabile, nel rispetto della normativa vigente e seguendo alti standard europei di qualità.

Milano, 13/07/2023

*Giorgio Arienti*  
*Direttore Generale*  
*Erion WEEE*

A handwritten signature in dark ink, appearing to read 'Giorgio Arienti', written over a light blue rectangular background.

Erion Weee



## CERTIFICATE OF PARTECIPATION 2023

*for responsible and sustainable management  
of Waste Electrical and Electronical Equipment*

**HIKVISION ITALY SRL  
TC. 07757250969**

for the year 2023 is part of **Erion WEEE**  
for a proper management of Waste Electrical and Electronical Equipment,  
thus fulfilling the obligations of the Italian **Legislative Decree 49/2014**.

**Erion WEEE**, one of the most authoritative collective schemes at national and European level, guarantees for **HIKVISION ITALY SRL** that such waste is properly managed and recycled, in a traced and environmentally responsible way, in compliance with the current legislation and following the high European quality standards.

Milano, 13/07/2023

*Giorgio Arienti  
Direttore Generale  
Erion WEEE*

A handwritten signature in black ink, appearing to read 'Giorgio Arienti', located below the printed name and title.



Erion Energy



**ATTESTATO DI ADESIONE 2023**  
*per la gestione responsabile e sostenibile*  
*dei Rifiuti di Pile e Accumulatori*

**HIKVISION ITALY SRL**  
**CF. 07757250969**

è iscritto per l'anno 2023 a **Erion Energy**  
per la corretta gestione dei Rifiuti di Pile e Accumulatori (RPA),  
adempiendo così agli obblighi del **Decreto Legislativo 188/08**.

**Erion Energy**, Sistema Collettivo tra i più autorevoli e  
riconosciuti a livello nazionale ed europeo, garantisce per **HIKVISION ITALY SRL** che tali  
rifiuti siano gestiti e riciclati in maniera corretta, tracciata  
e ambientalmente responsabile, nel rispetto della normativa vigente  
e seguendo alti standard europei di qualità.

Milano, 13/07/2023

*Laura Castelli*  
*Direttore Generale*  
*Erion Energy*

*Laura Castelli*

Erion Energy



## CERTIFICATE OF REGISTRATION 2023

*for responsible and sustainable management  
of Waste Batteries and Accumulators*

**HIKVISION ITALY SRL  
TC. 07757250969**

is registered for the year 2023 to **Erion Energy**  
for a proper management of Waste Batteries and Accumulators,  
thus fulfilling the obligations of the Italian **Legislative Decree 188/08**.

**Erion Energy**, one of the most authoritative collective schemes at national and European level, guarantees for **HIKVISION ITALY SRL** that such waste is properly managed and recycled, in a traced and environmentally responsible way, in compliance with the current legislation and following the high European quality standards.

Milano, 13/07/2023

*Laura Castelli  
Direttore Generale  
Erion Energy*

# Zertifikat

# Certificate



**Zertifikat Nr. Certificate No.**  
Q 50582410

**Blatt Sheet**  
0001

**Ihr Zeichen Client Reference**  
245797186

**Unser Zeichen Our Reference**  
01-JYY-CN21GMW2 004

**Ausstellungsdatum Date of Issue**  
20.04.2023 (day/mo/yr)

**Genehmigungsinhaber License Holder**  
Hangzhou Hikvision Digital  
Technology Co., Ltd.  
No. 555 Qianmo Road  
Binjiang District, Hangzhou  
310052 Zhejiang  
P.R. China

**Fertigungsstätte Manufacturing Plant**  
Hangzhou Hikvision Electronics Co., Ltd  
No.299, Qiushi Road,  
Tonglu Economic Development Zone,  
Tonglu County,  
Hangzhou  
311500 Zhejiang  
P.R. China

**Prüfzeichen Test Mark**



**Geprüft nach Tested acc. to**  
2 PFG 2383/03.20

**Zertifiziertes Produkt (Geräteidentifikation)**  
**Certified Product (Product Identification)**

**Lizenzentgelte - Einheit**  
**License Fee - Unit**

Display Unit (Display Unit)

Product Name : Smart Interactive Panel/Smart Blackboard/  
Smart Nano Blackboard/LCD Display/  
Monitor Display/Digital Signage/  
Classroom Information Release Screen

Type Designation: DS-D6122TL-B/C, DS-D6122TH-B/C,  
DS-D6122TL-C/C, DS-D6122TH-C/C,  
DS-D6122TL-B/T, DS-D6122TH-B/T,  
DS-D6122TL-C/T, DS-D6122TH-C/T,  
DS-D6122TL-B/I, DS-D6122TH-B/I,  
DS-D6122TL-C/I, DS-D6122TH-C/I,  
(Continuous on Appendix 3.0 to 3.41)

Rated Input : AC 100-240 V, 50/60 Hz, 3.0 A, Class I  
LCD Panel : DS-LCM650UD (mfg.: HIKVISION)

Date of Expiry : 19.04.2024  
Trademark : HIKVISION

Remark:  
Refer to test report CN21GMW2 004 for details.

ANLAGE (Appendix): 3.0-3.41

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.  
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.  
This certificate is based on our Testing and Certification Regulation. The product  
fulfills above mentioned requirements, the production is subject to surveillance.



**Zertifizierungsstelle**

**TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg**  
<http://www.tuv.com/safety> E-mail: [markcheck@tuv.com](mailto:markcheck@tuv.com)  
Fax: +49 221 806-3935

**Hongyan Yu**

# Appendix No. 3.0



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-D6122TL-B/VC, DS-D6122TH-B/VC, DS-D6122TL-C/VC, DS-D6122TH-C/VC, DS-D6122TL-C/ZC, DS-D6122TH-C/ZC, DS-D61WXYZ-X/YZ, DS-D6116TL-C/C, DS-D6116TL-C/VC, DS-D2049NL-B/Y, DS-D2049NH-B/Y, DS-D2046NL-E/Y, DS-D2046NL-F/Y, DS-D2055NL-F/Y, DS-D2049NL-B, DS-D2055NH-F/Y, DS-D2055NH-B/G, DS-D2055NL-E/G, DS-D2055NH-F/G, DS-D2A461LU, DS-D50F22, D50F22S, D50F27, D50F27C, D50F32C, DS-5024FX, DS-5027FX, DS-5027FX-A, DS-D5022FC-A, DS-D5022FC-B, DS-D5022FQ-N, DS-D5022FE, DS-D5022FX, DS-D5022FX-DS-D5022QD-S, DS-D5027FQ-N, DS-D5027UC, DS-D5032FC-B, DS-D5043FC-A, DS-D5043FQ-A, DS-D5043UC-A, DS-D5043UHL, DS-D5055UC-A, DS-D5055UHL, DS-D5155TL/P, DS-D5155TL/A, DS-D5155TL/B, DS-D5155TL/C, DS-D5155TL/D, DS-D5155TS/P, DS-D5155TS/A, DS-D5155TS/B, DS-D5155TS/C, DS-D5155TS/D, DS-D5155TC/P, DS-D5155TC/A

Serial Number : Engineering sample  
Remark : Refer to test report CN21GMW2 004 for details.



**Certification Body**

**Date:** 2023-04-20

Hongyan Yu



# Appendix No. 3.1



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation:	DS-D5155TC/B, DS-D5155BD/A, DS-D5155BD/D, DS-D5055TL/B, DS-D5055TS/P, DS-D5055TS/C, DS-D5055TC/A, DS-D5055TC/D, DS-D51WXYZ-X/Y, DS-D5165TL/A, DS-D5165TL/D, DS-D5165TS/B, DS-D5165TC/P, DS-D5165TC/C, DS-D5165BD/B, DS-D5065TL/P, DS-D5065TL/C, DS-D5065TS/A, DS-D5065TS/D, DS-D5065TC/B, DS-D5165TL/ZC, DS-D5170TL/A, DS-D5170TL/D, DS-D5170TS/B,	DS-D5155TC/C, DS-D5155BD/B, DS-D5055TL/P, DS-D5055TL/C, DS-D5055TS/A, DS-D5055TS/D, DS-D5055TC/B, DS-D5155TL/ZC, DS-D51WXYZ/ABC, DS-D5165TL/B, DS-D5165TS/P, DS-D5165TS/C, DS-D5165TC/A, DS-D5165TC/D, DS-D5165BD/C, DS-D5065TL/A, DS-D5065TL/D, DS-D5065TS/B, DS-D5065TC/P, DS-D5065TC/C, DS-D5065TL/ZC, DS-D5170TL/B, DS-D5170TL/C, DS-D5170TS/P, DS-D5170TS/C,	DS-D5155TC/D, DS-D5155BD/C, DS-D5055TL/A, DS-D5055TL/D, DS-D5055TS/B, DS-D5055TC/P, DS-D5055TC/C, DS-D5055TL/ZC, DS-D5165TL/P, DS-D5165TL/C, DS-D5165TS/A, DS-D5165TS/D, DS-D5165TC/B, DS-D5165BD/A, DS-D5165BD/D, DS-D5065TL/B, DS-D5065TS/P, DS-D5065TS/C, DS-D5065TC/A, DS-D5065TC/D, DS-D5170TL/P, DS-D5170TL/C, DS-D5170TS/A, DS-D5170TS/D,
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Serial Number : Engineering sample

Remark : Refer to test report CN21GMW2 004 for details.



**Certification Body**

**Date:** 2023-04-20

**Hongyan Yu**

## Appendix No. 3.2



**TÜV Rheinland**  
**LGA Products GmbH**  
**Tillystraße 2, 90431 Nürnberg**

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-D5170TC/P, DS-D5170TC/A, DS-D5170TC/B,  
DS-D5170TC/C, DS-D5170TC/D, DS-D5170BD/A,  
DS-D5170BD/B, DS-D5170BD/C, DS-D5170BD/D,  
DS-D5070TL/P, DS-D5070TL/A, DS-D5070TL/B,  
DS-D5070TL/C, DS-D5070TL/D, DS-D5070TS/P,  
DS-D5070TS/A, DS-D5070TS/B, DS-D5070TS/C,  
DS-D5070TS/D, DS-D5070TC/P, DS-D5070TC/A,  
DS-D5070TC/B, DS-D5070TC/C, DS-D5070TC/D,  
DS-D5170TL/ZC, DS-D5070TL/ZC, DS-D5175TL/P,  
DS-D5175TL/A, DS-D5175TL/B, DS-D5175TL/C,  
DS-D5175TL/D, DS-D5175TS/P, DS-D5175TS/A,  
DS-D5175TS/B, DS-D5175TS/C, DS-D5175TS/D,  
DS-D5175TC/P, DS-D5175TC/A, DS-D5175TC/B,  
DS-D5175TC/C, DS-D5175TC/D, DS-D5175BD/A,  
DS-D5175BD/B, DS-D5175BD/C, DS-D5175BD/D,  
DS-D5075TL/P, DS-D5075TL/A, DS-D5075TL/B,  
DS-D5075TL/C, DS-D5075TL/D, DS-D5075TS/P,  
DS-D5075TS/A, DS-D5075TS/B, DS-D5075TS/C,  
DS-D5075TS/D, DS-D5075TC/P, DS-D5075TC/A,  
DS-D5075TC/B, DS-D5075TC/C, DS-D5075TC/D,  
DS-D5175TL/ZC, DS-D5075TL/ZC, DS-D5186TL/P,  
DS-D5186TL/A, DS-D5186TL/B, DS-D5186TL/C,  
DS-D5186TL/D, DS-D5186TS/P, DS-D5186TS/A,  
DS-D5186TS/B, DS-D5186TS/C, DS-D5186TS/D,  
DS-D5186TC/P, DS-D5186TC/A, DS-D5186TC/B,  
DS-D5186TC/C, DS-D5186TC/D, DS-D5186BD/A,

Serial Number : Engineering sample

Remark : Refer to test report CN21GMW2 004 for details.



**Certification Body**

**Date:** 2023-04-20

Hongyan Yu



# Appendix No. 3.3



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-D5049FQ-C, DS-D5049FQ-D, DS-D5049FQ-N,  
DS-D5049FQ-NA, DS-D5049FE, DS-D5049FE-A,  
DS-D5049FE-B, DS-D5049FE-C, DS-D5049FE-D,  
DS-D5049FE-N, DS-D5049FE-NA, DS-D5049UQ,  
DS-D5049UQ-A, DS-D5049UQ-B, DS-D5049UQ-C,  
DS-D5049UQ-D, DS-D5049UQ-N, DS-D5049UQ-NA,  
DS-D5049UE, DS-D5049UE-A, DS-D5049UE-B,  
DS-D5049UE-C, DS-D5049UE-D, DS-D5049UE-N,  
DS-D5049UE-NA, DS-D55F49C, DS-D55F49CN,  
DS-D55F49P, DS-D55F49PN, DS-D55U49C,  
DS-D55U49CN, DS-D55U49P, DS-D55U49PN,  
DS-D5050FX, DS-D5050FX-A, DS-D5050FX-B,  
DS-D5050FH, DS-D5050FH-A, DS-D5050FH-B,  
DS-D5050FF, DS-D5050FF-A, DS-D5050FF-B,  
DS-D5050UX, DS-D5050UX-A, DS-D5050UX-B,  
DS-D5050UH, DS-D5050UH-A, DS-D5050UH-B,  
DS-D5050UF, DS-D5050UF-A, DS-D5050UF-B,  
DS-D5050UB, DS-D5050UB-A, DS-D5050UB-B,  
DS-D5050UW, DS-D5050UW-A, DS-D5050UW-B,  
DS-D5050FL, DS-D5050FL-A, DS-D5050FL-A/E,  
DS-D5050FL-A/D, DS-D5050FL-A/S, DS-D5050FL-B,  
DS-D5050FL-B/E, DS-D5050FL-B/D, DS-D5050FL-B/S,  
DS-D5050FL-C, DS-D5050FL-C/E, DS-D5050FL-C/D,  
DS-D5050FL-C/S, DS-D5050FL-D, DS-D5050FL-D/E,  
DS-D5050FL-D/D, DS-D5050FL- D/S, DS-D5050FL-N,

Serial Number : Engineering sample

Remark : Refer to test report CN21GMW2 004 for details.



**Certification Body**

**Date:** 2023-04-20

Hongyan Yu

## Appendix No. 3.4



**TÜV Rheinland**  
**LGA Products GmbH**  
**Tillystraße 2, 90431 Nürnberg**

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-D6043TL-B/S, DS-D6049FL-B, DS-D6049CL-B,  
DS-D6049TL-B, DS-D6049FL-B/S, DS-D6049TL-B/S,  
DS-D6055FL-B, DS-D6055CL-B, DS-D6055TL-B,  
DS-D6055FN-B, DS-D6055UN-B, DS-D6055FN-F,  
DS-D6055FL-B/S, DS-D6055TL-B/S, DS-D6065FL-B,  
DS-D6065CL-B, DS-D6065TL-B, DS-D6065FL-B/S,  
DS-D6065TL-B/S, DS-D6016TL-C/C, DS-D6016TL-C/VC,  
DS-D6016TL-B/V, DS-D6016FL-B, DS-D6022TH-C/C,  
DS-D6022TH-C/T, DS-D6043CL-C/SC, DS-D6043FL-C/SC,  
DS-D6043FL-C/ST, DS-D6055FL-C/S, DS-D6055FL-B/SC,  
DS-D6055CL-C/SC, DS-D6055UL-C/SC, DS-D6024BL-B,  
DS-D6029BL-B, DS-D6037BL-B, DS-D6043DL-B,  
DS-D6049DL-DS-D6055DL-B, DS-D6055DL-B/S,  
DS-D6055FL, DS-D60C-B, DS-D60C-B/E,  
DS-D60C-F, DS-D60WXYZ, DS-D60WXYZ-X/Y,  
DS-D60WXYZ-X/YZ, DS-D5155TS/S, DS-D5165TS/S,  
DS-D5170TS/S, DS-D5175TS/S, DS-D5186TS/S,  
DS-D5198TS/S, DS-D5175BD/E, DS-D5175BD/F,  
DS-D5186BD/E, DS-D5186BD/F, DS-D5175BN/AR,  
DS-D5175BC/AR, DS-D5175BT/BC, DS-D5175BM/BC,  
DS-D5186BN/AR, DS-D5186BC/AR, DS-D5186BT/BC,  
DS-D5186BM/BC, DS-D5198BD/BR, DS-D5198BD/BC,  
DS-D5186TS/U, DS-D5175TS/U, DS-D5165TS/U,  
DS-D5186TS/M, DS-D5175TS/M, DS-D5165TS/M,  
DS-D5165BD/E, DS-D5170BD/E, DS-D5198BD/E,

Serial Number : Engineering sample

Remark : Refer to test report CN21GMW2 004 for details.



**Certification Body**

**Date:** 2023-04-20

Hongyan Yu



# Appendix No. 3.5



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-DXXXXXXX, DS-D2046NH-F/Y, DS-D2055UL-F/Y, DS-D2055NL-E/T, DS-D2055NL-T/T, DS-D2055NL-E/C, DS-D2055NL-U/H, DS-D2055NX-M, DS-D2055NX-M/K, DS-VW55/L35, DS-VW55/L35G, DS-VW46/U, DS-VW46/TC, DS-VW55/UL, DS-D2A461LT, DS-D2A551LE, DS-D6122TS-D/TI, DS-D6122TH-D/C, DS-D6122TH-D/VC, DS-D6XXXCL-X/XX, DS-D50XXXX-X, DS-D50XXXX-XX/X, DS-D5022FX-B, DS-D5024FX-B, DS-D5024UX, DS-D5027UX, DS-DXXXXXXX, DS-DXXXXXXX, DS-D2046NH-E/Y, DS-D2055NH-E/Y, DS-D2055NH-F/YM, DS-D2046NL-E/T, DS-D2046NL-E/C, DS-D2055NL-E/H, DS-D2046NX-M, DS-D2046NX-M/K, DS-VW46/L35, DS-VW55/L35T, DS-VW46/L35R, DS-VW55/U, DS-VW55/UC, DS-VW55/UB, DS-D2A551LT, DS-D6122TS-B/C, DS-D6122TH-D/I, DS-D6122TL-D/C, DS-D6XXXFL-X/XX, DS-D6XXXFL-X/XX, DS-D50XXXX-X/X, DS-D50XXXX, DS-D5022QX, DS-D5024QX, DS-D5027FX-B, DS-D5032FX, DS-D2046NH-E/Y, DS-D2055UL-E/Y, DS-D2055NH-E/YM, DS-D2046NL-T/T, DS-D2046NL-E/H, DS-D2055NL-U/C, DS-D2049NX-M, DS-D2049NX-M/K, DS-VW49/L35, DS-VW55/L35TR, DS-VW55/L35R, DS-VW46/UG, DS-VW55/UH, DS-VW55/UX, DS-D2A461LE, DS-D6122TS-D/T, DS-D6122TL-D/I, DS-D6122TL-D/VC, DS-D6XXXTL-X/XX, DS-D6XXXXX-XX/XXX, DS-D50XXXX-XX, DS-D5019FX, DS-D5022QX-A, DS-D5024QX-A, DS-D5027QX, DS-D5032QX,

Serial Number : Engineering sample  
Remark : Refer to test report CN21GMW2 004 for details.



Certification Body

Date: 2023-04-20

Hongyan Yu

# Appendix No. 3.6



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-D5032UX, DS-D5019SC, DS-D5022FC-N,  
DS-D5022FC-H, DS-D5022FCZC, DS-D5022FC-H/P,  
DS-D5022FC-H/F, DS-D5022FL,  
DS-D5022FL-ADS-D5022FL-A/D, DS-D5022FL-A/S,  
DS-D5022QC, DS-D5022QC-A, DS-D5022QC-C,  
DS-D5024FC, DS-D5024FC-A, DS-D5024FC-N,  
DS-D5024FC-H, DS-D5024QC, DS-D5024QC-A,  
DS-D5024QC-C, DS-D5024QC-N, DS-D5024UC,  
DS-D5024UC-A, DS-D5024UC-C, DS-D5024UC-N,  
DS-D5027FC, DS-D5027FC-A, DS-D5027FC-N,  
DS-D5027FC-C, DS-D5027UC-N, DS-D5032FC,  
DS-D5032FC-A, DS-D5032FC-C, DS-D5032FC-N,  
DS-D5032FC-H, DS-D5032FL, DS-D5032FL-A,  
DS-D5032FL-A/D, DS-D5032FL-A/S, DS-D5043FC,  
DS-D5043FC-A, DS-D5043FC-N, DS-D5043FL,  
DS-D5043FL-A, DS-D5043FL-A/D, DS-D5043FL-A/S,  
DS-D5043UC, DS-D5043UC-A/D, DS-D5043UC-A/S, DS-  
D5043UC-N, DS-D5043UL, DS-D5043UL-A,  
DS-D5043UL-A/D, DS-D5043UL-A/S, DS-D5050UC,  
DS-D5050UC-A, DS-D5050UC-N, DS-D5055UC,  
DS-D5055UC-N, DS-D5055UL, DS-D5055UL-A,  
DS-D5055UL-A/D, DS-D5055UL-A/S, DS-D5065UC,  
DS-D5065UC-A, DS-D5065UL, DS-D5065UL-A,  
DS-D5065UL-B, DS-D5075UL-B, DS-D5086UL-B,

Serial Number : Engineering sample  
Remark : Refer to test report CN21GMW2 002 for details.



**Certification Body**

**Date:** 2023-04-20

**Hongyan Yu**



# Appendix No. 3.7



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation:	DS-D5022FQ, DS-D5022FE, DS-D5022QQ-H, DS-D5024FQ-C, DS-D5024FE-N, DS-D5024QQ-H, DS-D5024UQ-N, DS-D5027FQ-NB, DS-D5027FE-N, DS-D5027QQ-C, DS-D5027UQ-C, DS-D5032FQ-N, DS-D5032FE, DS-D5032UQ-N, DS-D5043FQ, DS-D5043FQ-H, DS-D5043UQ, DS-D5043UQ-B, DS-D5050UQ, DS-D5050UQ-B, DS-D5055UQ, DS-D5055UQ-B, DS-D5065UQ,	DS-D5022FQ-NA, DS-D5022FE-N, DS-D5024FQ, DS-D5024FQ-H, DS-D5024QQ, DS-D5024QQ-C, DS-D5027FQ, DS-D5027FQ-C, DS-D5027QQ, DS-D5027QQ-H, DS-D5027UQ-H, DS-D5032FQ-C, DS-D5032FE-N, DS-D5032UQ-C, DS-D5043FQ-N, DS-D5043FE, DS-D5043UQ-N, DS-D5043UE, DS-D5050UQ-N, DS-D5050UE, DS-D5055UQ-N, DS-D5055UE, DS-D5065UQ-N,	DS-D5022FQ-H, DS-D5022QQ-N, DS-D5024FQ-NA, DS-D5024FE, DS-D5024QQ-N, DS-D5024UQ, DS-D5027FQ-NA, DS-D5027FE, DS-D5027QQ-N, DS-D5027UQ-N, DS-D5032FQ, DS-D5032FQ-H, DS-D5032UQ, DS-D5032UQ-H, DS-D5043FQ-B, DS-D5043FE-N, DS-D5043UQ-A, DS-D5043UE-N, DS-D5050UQ-A, DS-D5050UE-N, DS-D5055UQ-A, DS-D5055UE-N,
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Serial Number : Engineering sample  
Remark : Refer to test report CN21GMW2 004 for details.



Certification Body

Date: 2023-04-20

Hongyan Yu

# Appendix No. 3.8



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation:	DS-D5065UQ-A, DS-D5065UE-N, HM20F, HM27F, HMXXX-XXX, FXXXXXXXX, D50F22, D50F27, D50F32C, DS-D5019QE-A, DS-D5022FC, DS-D5022FN-A, DS-D5022QC-B, DS-D5022QE-B, DS-D5022QN-A, DS-D5022QN-D, DS-D5024FE-A, DS-D5024FN-A, DS-D5024QE, DS-D5024QN-D, DS-D5024UN-C, DS-D5027FC-D, DS-D5027FN-D, DS-D5027QE, DS-D5027QN-D, DS-D5027UN-C, DS-D5032UC,	DS-D5065UQ-B, DS-D5065UE-A, HM22F, HM24Q, MNTXXX-XXX, QXXXXXXXX, D50F24, D50F27C, D50XXXX-X, DS-D5019QE-B, DS-D5022FC-C, DS-D5022FN-B, DS-D5022QE, DS-D5022QE-C, DS-D5022QN-B, DS-D5024FC-B, DS-D5024FE-B, DS-D5024FN-B, DS-D5024QN, DS-D5024UE, DS-D5024UN-D, DS-D5027FN, DS-D5027QC-C, DS-D5027QN, DS-D5027UC-C, DS-D5032FN, DS-D5032UC-C,	DS-D5065UE, HM19F, HM24F, HM27Q, BXXXXXXXX, UXXXXXXXX, D50F24C, D50F32, DS-D5019QE, DS-D5020FE, DS-D5022FN, DS-D5022FN-C, DS-D5022QE-A, DS-D5022QN, DS-D5022QN-C, DS-D5024FC-C, DS-D5024FN, DS-D5024FN-C, DS-D5024QN-C, DS-D5024UN, DS-D5027FC-B, DS-D5027FN-C, DS-D5027QC-D, DS-D5027QN-C, DS-D5027UN, DS-D5032FN-C, DS-D5032UE,
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Serial Number : Engineering sample

Remark : Refer to test report CN21GMW2 004 for details.



**Certification Body**

**Date:** 2023-04-20

Hongyan Yu



# Appendix No. 3.9



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation:	DS-D5032UN, DS-D5043FN, DS-D5043UN, DS-D5050UN, DS-D5065UN, DS-D55F22P, DS-D55F24PH, DS-D55Q24CN, DS-D55F24PN, DS-D55Q27PN, DS-D55U27PN, DS-D55F32CN, DS-D55Q32PH, DS-D55U32PH, DS-D55F43PN, DS-D55U55P, DS-D55F34CN, DS-D5XXXXXXX, DS-D56QB22P,	DS-D5032UN-C, DS-D5043FN-C, DS-D5050UC-B, DS-D5055UC-B, DS-D55F19P, DS-D55F22PN, DS-D55F24CN, DS-D55Q24PH, DS-D55F24PH, DS-D55Q27CN, DS-D55F32PN, DS-D55Q32PN, DS-D55U32PN, DS-D55F32P, DS-D55U43P, DS-D55U55PN, DS-D55U65P, DS-D5XXXX-XX/XXX, DS-D56FB24P,	DS-D5043FL-B, DS-D5043UC-C, DS-D5050UC-C, DS-D5055UN, DS-D55F20P, DS-D55F24PN, DS-D55Q24PN, DS-D55U24PN, DS-D55F27CN, DS-D55Q27PH, DS-D55F32PH, DS-D55Q32CN, DS-D55U27PH, DS-D55F43P, DS-D55U43PN, DS-D55Q34CN, DS-D55U65PN, DS-D56FB22P, DS-D56QB24P,
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Serial Number : Engineering sample  
Remark : Refer to test report CN21GMW2 004 for details.



**Certification Body**

**Date:** 2023-04-20

**Hongyan Yu**

# Appendix No. 3.10



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-D56FB24C, DS-D56QB24C, DS-D56QG24P,  
DS-D56FG24C, DS-D56QG24C, DS-D56FB27P,  
DS-D56QB27P, DS-D56FB27C, DS-D56QB27C,  
DS-D56QG27P, DS-D56FG27C, DS-D56QG27C,  
DS-D56UB24P, DS-D56UB27P, DS-D56UB27C,  
DS-D56UG27P, DS-D56UG27C, DS-D56UG27C,  
DS-D56QB27P/T, DS-D56QB32P/T, DS-D56QB27P/TR,  
DS-D56QB32P/TR, DS-D56UB27P/TR, DS-D56UB32P/TR,  
DS-D56FB34C, DS-D56QG34C, DS-D56UG34C/TR,  
DS-D56FB49C, DS-D56QG49C/TR, DS-D57P22BF,  
DS-D57P22BQ, DS-D57P24BF, DS-D57P24BQ,  
DS-D57P24BU, DS-D57P24GQ, DS-D57P24GU,  
DS-D57P27BF, DS-D57P27BQ, DS-D57P27BU,  
DS-D57P27GQ, DS-D57P27GU, DS-D57P27BQ/T,  
DS-D57P27BU/TR, DS-D57P27GQ/T, DS-D57P27GU/TR,  
DS-D57P32BF, DS-D57P32BQ, DS-D57P32BU,  
DS-D57P32GQ, DS-D57P32GU, DS-D57P32BQ/T,  
DS-D57P32BU/TR, DS-D57P32GQ/T, DS-D57P32GU/TR,  
DS-D57P32PQ, DS-D57P32PU, DS-D57P27PQ,  
DS-D57P27PU, DS-D57P32MQ, DS-D57P32MU,  
DS-D57P27MQ, DS-D57P27MU, DS-D57C24BF,  
DS-D57C24BQ, DS-D57C24BU,

Serial Number : Engineering sample  
Remark : Refer to test report CN21GMW2 004 for details.



Certification Body

Date: 2023-04-20

Hongyan Yu



# Appendix No. 3.11



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-D57C24GQ, DS-D57C27BQ, DS-D57C27GU, DS-D57C27GQ/T, DS-D57C32BQ, DS-D57C32GU, DS-D57C32GQ/T, DS-D5022FN02, DS-D5022FN05, DS-D5022FC03, DS-D5024FN01, DS-D5024FN04, DS-D5024QN02, DS-D5024QN05, DS-D5024UN03, DS-D5024FC01, DS-D5024FC04, DS-D5024FM02, DS-D5024FM05, DS-D5024UM03, DS-D5027FN01, DS-D5027FN04, DS-D57C24GU, DS-D57C27BU, DS-D57C27BQ/T, DS-D57C27GU/TR, DS-D57C32BU, DS-D57C32BQ/T, DS-D57C32GU/TR, DS-D5022FN03, DS-D5022FC01, DS-D5022FC04, DS-D5024FN02, DS-D5024FN05, DS-D5024QN03, DS-D5024UN01, DS-D5024UN04, DS-D5024FC02, DS-D5024FC05, DS-D5024FM03, DS-D5024UM01, DS-D5027FN02, DS-D5027FN05, DS-D57C27BF, DS-D57C27GQ, DS-D57C27BU/TR, DS-D57C32BF, DS-D57C32GQ, DS-D57C32BU/TR, DS-D5022FN01, DS-D5022FN04, DS-D5022FC02, DS-D5022FC05, DS-D5024FN03, DS-D5024QN01, DS-D5024QN04, DS-D5024UN02, DS-D5024UN05, DS-D5024FC03, DS-D5024FM01, DS-D5024FM04, DS-D5024UM02, DS-D5024UM05, DS-D5027FN03, DS-D5027QN01,

Serial Number : Engineering sample  
Remark : Refer to test report CN21GMW2 004 for details.



Certification Body

Date: 2023-04-20

Hongyan Yu

# Appendix No. 3.12



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation:	DS-D5027QN02,	DS-D5027QN03,	DS-D5027QN04,
	DS-D5027QN05,	DS-D5027UN01,	DS-D5027UN02,
	DS-D5027UN03,	DS-D5027UN04,	DS-D5027UN05,
	DS-D5027FC01,	DS-D5027FC02,	DS-D5027FC03,
	DS-D5027FC04,	DS-D5027FC05,	DS-D5027QC01,
	DS-D5027QC02,	DS-D5027QC03,	DS-D5027QC04,
	DS-D5027QC05,	DS-D5027UC01,	DS-D5027UC02,
	DS-D5027UC03,	DS-D5027UC04,	DS-D5027UC05,
	DS-D5027FM01,	DS-D5027FM02,	DS-D5027FM03,
	DS-D5027FM04,	DS-D5027FM05,	DS-D5027QM01,
	DS-D5027QM02,	DS-D5027QM03,	DS-D5027QM04,
	DS-D5027QM05,	DS-D5027UM01,	DS-D5027UM02,
	DS-D5027UM03,	DS-D5027UM04,	DS-D5027UM05,
	DS-D5032FN01,	DS-D5032FN02,	DS-D5032FN03,
	DS-D5032FN04,	DS-D5032FN05,	DS-D5032QN01,
	DS-D5032QN02,	DS-D5032QN03,	DS-D5032QN04,
	DS-D5032QN05,	DS-D5032UN01,	DS-D5032UN02,
	DS-D5032UN03,	DS-D5032UN04,	DS-D5032UN05,
	DS-D5032FC01,	DS-D5032FC02,	DS-D5032FC03,
	DS-D5032FC04,	DS-D5032FC05,	DS-D5032QC01,
	DS-D5032QC02,	DS-D5032QC03,	DS-D5032QC04,
	DS-D5032QC05,	DS-D5032UC01,	DS-D5032UC02,
	DS-D5032UC03,	DS-D5032UC04,	DS-D5032UC05,
	DS-D5032FM01,	DS-D5032FM02,	DS-D5032FM03,

Serial Number : Engineering sample  
Remark : Refer to test report CN21GMW2 004 for details.



Certification Body

Date: 2023-04-20

Hongyan Yu



# Appendix No. 3.13



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation:	DS-D5032FM04, DS-D5032QM02, DS-D5032QM05, DS-D5032UM03, DS-D5186TS/F, DS-D5186TS/G, DS-D5186TS/H, DS-D5186TS/J, DS-D5186TS/K, DS-D5186TS/L, DS-D5186TS/M, DS-D5186TS/N, DS-D5186TS/O, DS-D5186TS/Q, DS-D5186TS/R, DS-D5186TS/Z, DS-D5186TS/S, DS-D5186BM/BR, DS-D5186BC/BR, DS-D5186BF/AR, DS-D5186BS/AC	DS-D5032FM05, DS-D5032QM03, DS-D5032UM01, DS-D5032UM04, DS-D5175TS/F, DS-D5175TS/G, DS-D5175TS/H, DS-D5175TS/J, DS-D5175TS/K, DS-D5175TS/L, DS-D5175TS/M, DS-D5175TS/N, DS-D5175TS/O, DS-D5175TS/Q, DS-D5175TS/R, DS-D5175TS/Z, DS-D5175TS/S, DS-D5186BC/C, DS-D5186BD/AR, DS-D5186BF/AC	DS-D5032QM01, DS-D5032QM04, DS-D5032UM02, DS-D5032UM05, DS-D5165TS/F, DS-D5165TS/G, DS-D5165TS/H, DS-D5165TS/J, DS-D5165TS/K, DS-D5165TS/L, DS-D5165TS/M, DS-D5165TS/N, DS-D5165TS/O, DS-D5165TS/Q, DS-D5165TS/R, DS-D5165TS/Z, DS-D5165TS/S, DS-D5186BC/BC, DS-D5186BD/AC, DS-D5186BS/AR
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Serial Number : Engineering sample  
Remark : Refer to test report CN21GMW2 004 for details.



Certification Body

Hongyan Yu

Date: 2023-04-20

# Appendix No. 3.14



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-D5B55RB/A, DS-D5B65RB/A, DS-D5B75RB/A,  
DS-D5B86RB/A, DS-D5B55RB/B, DS-D5B65RB/B,  
DS-D5B75RB/B, DS-D5B86RB/B, DS-D5B65RB/C,  
DS-D5B75RB/C, DS-D5B86RB/C, DS-D5B65RB/D,  
DS-D5B75RB/D, DS-D5B86RB/D, DS-D5C65RB/A,  
DS-D5C75RB/A, DS-D5C86RB/A, DS-D5C65RB/B,  
DS-D5C75RB/B, DS-D5C86RB/B, DS-D5D65RB/A,  
DS-D5D75RB/A, DS-D5D86RB/A, DS-D5D65RB/B,  
DS-D5D75RB/B, DS-D5D86RB/B, DS-D6055UN-B,  
DS-D6065UN, DS-D6075UN, DS-D6086UN,  
DS-D6043UH, DS-D6055UH, DS-D6043UL-B/S,  
DS-D6055UL-B/S, DS-D2055NH-E/T, DS-D2055NL-F/T,  
DS-D2055NH-F/T, DS-D2046NL-F/T, DS-D2055UL-E/T,  
DS-D2055UL-F/T, DS-VW46/L35G, DS-VW55/L35X,  
,DS-VW46/H35G, DS-VW46/L25T, DS-VX46E35,  
DS-VX55E35, DS-VW49/U, DS-VW46/UB,  
DS-VW49/UB, DS-VX46EU, DS-VX55EU,  
DS-D2A461LR, DS-D2A551LR, DS-D2046NL-AU,  
DS-D2046NL-BU, DS-D2049NL-AU, DS-D2049NL-BU,  
DS-D2055NL-AU, DS-D2055NL-BU, DS-D2055NH-AU,  
DS-D2055NH-BU, DS-D2055UL-AU, DS-D2055UL-BU,  
DS-D2155TUF, DS-D2155TUC,

Serial Number : Engineering sample

Remark : Refer to test report CN21GMW2 004 for details.



Certification Body

Date: 2023-04-20

Hongyan Yu



# Appendix No. 3.15



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-D2146TUH, DS-D2146TUF, DS-D2146TUC,  
DS-D2155RHF/G, DS-D2155EHF/G, DS-D2146ULF/Y,  
DS-D2155UHF/Y, DS-D2046LU-Y, DS-D2049LU-Y,  
DS-D2055LU-Y, DS-D2055HU-Y, DS-D2055LE-G,  
DS-D2055HE-G, DS-D2055LR-G, DS-D2055HR-G,  
DS-D2055LU-G, DS-D2065LU-Y, DS-D2055UE-Y,  
DS-D5022FX-C, DS-D5022FX-D, DS-D50FB22  
,DS-D50FB22-A, DS-D50FB22-B, DS-D50FF22,  
DS-D50FF22-A, DS-D50FF22-B, DS-D50FW22  
,DS-D50FW22-A, DS-D50FW22-B, DS-D50FK22,  
DS-D50FK22-A, DS-D50FK22-B, DS-D5015SC,  
DS-D5015SL, DS-D5016SC, DS-D5016SL,  
DS-D5019SL, DS-D5022FL-B, DS-D5022FL-C,  
DS-D5022FL/S, DS-D5022FL/D, DS-D5022FC-A/E,  
DS-D5022FC-A/F, DS-D5022FC-B/E, DS-D5022FC-B/F,  
DS-D5022FC-C/E, DS-D5022FC-C/F, DS-D5022FC-D,  
DS-D5022FC-D/E, DS-D5022FC-D/F, DS-D5022FC-N/E,  
DS-D5022FC-N/F, DS-D5022FC-H/E, DS-D5022FC-NA,  
DS-D5022FQ-A, DS-D5022FQ-NB, DS-D5022FQ-E,  
DS-D5022FE-B, DS-D5022FE-NA, DS-D5022FE-E,  
DS-D5022FE-H, DS-D5022FN-N, DS-D5022FN-NA,  
DS-D5022FN-E, DS-D5022FN-H, DS-D55F22C,  
DS-D55F22M, DS-D55F22CN, DS-D55F22CH,  
DS-D55F22PH, DS-D55F22MN, DS-D55F22MH

Serial Number : Engineering sample

Remark : Refer to test report CN21GMW2 004 for details.



Certification Body

Date: 2023-04-20

Hongyan Yu

**Appendix No. 3.16**



**TÜV Rheinland  
LGA Products GmbH  
Tillystraße 2, 90431 Nürnberg**

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

**Identification:**

Type Designation: DS-D2146TUH, DS-D2146TUF, DS-D2146TUC,  
DS-D56FP22P/R, DS-D56FB22C/STR, DS-D56FB22C,  
DS-D56FB22C/S, DS-D56FB22C/ST, DS-D56FB22C/SR,  
DS-D56FB22C/TR, DS-D56FB22C/T, DS-D56FB22C/R,  
DS-D56FB22P/STR, DS-D56FB22, DS-D56FB22P/S,  
DS-D56FB22P/ST, DS-D56FB22P/SR, DS-D56FB22P/TR,  
DS-D56FB22P/T, DS-D56FB22P/R, DS-D56FG22C/STR,  
DS-D56FG22C, DS-D56FG22C/S, DS-D56FG22C/ST,  
DS-D56FG22C/SR, DS-D56FG22C/TR, DS-D56FG22C/T,  
DS-D56FG22C/R, DS-D56FG22P/STR, DS-D56FG22P,  
DS-D56FG22P/S, DS-D56FG22P/ST, DS-D56FG22P/SR,  
DS-D56FG22P/TR, DS-D56FG22P/T, DS-D56FG22P/R,  
DS-D56FM22C/STR, DS-D56FM22C, DS-D56FM22C/S,  
DS-D56FM22C/ST, DS-D56FM22C/SR, DS-D56FM22C/TR,  
DS-D56FM22C/T, DS-D56FM22C/R, DS-D56FM22P/STR,  
DS-D56FM22P, DS-D56FM22P/S, DS-D56FM22P/ST,  
DS-D56FM22P/SR, DS-D56FM22P/TR, DS-D56FM22P/T,  
DS-D56FM22P/R, DS-D57P22BF/STR, DS-D57P22BF/S,  
DS-D57P22BF/T, DS-D57P22BF/R, DS-D57P22BF/ST,  
DS-D57P22BF/SR, DS-D57P22BF/TR, DS-D57P22GF/STR,  
DS-D57P22GF, DS-D57P22GF/S, DS-D57P22GF/T,  
DS-D57P22GF/R, DS-D57P22GF/ST, DS-D57P22GF/SR,  
DS-D57P22GF/TR, DS-D57P22PF/STR, DS-D57P22PF,  
DS-D57P22PF/S, DS-D57P22PF/T, DS-D57P22PF/R,  
DS-D57P22PF/ST, DS-D57P22PF/SR, DS-D57P22PF/TR,  
DS-D57P22MF/STR, DS-D57P22MF, DS-D57P22MF/S,

Serial Number : Engineering sample  
Remark : Refer to test report CN21GMW2 004 for details.



**Certification Body**

**Hongyan Yu**

**Date:** 2023-04-20



# Appendix No. 3.17



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-D57P22MF/T, DS-D57P22MF/R, DS-D57P22MF/ST, DS-D57P22MF/SR, DS-D57P22MF/TR, DS-D57C22BF, DS-D57C22BF/S, DS-D57C22BF/STR, DS-D57C22BF/TR, DS-D57C22GF, DS-D57C22GF/SR, DS-D57C22GF/T, DS-D57C22GF/STR, DS-D57C22GF/S, DS-D57C22GF/TR, DS-D57C22PF, DS-D57C22PF/S, DS-D57C22PF/STR, DS-D57C22PF/T, DS-D57C22PF/R, DS-D57C22PF/STR, DS-D57C22PF/SR, DS-D57C22PF/TR, DS-D57C22MF, DS-D57C22MF/S, DS-D57C22MF/STR, DS-D57C22MF/T, DS-D57C22MF/SR, DS-D57C22MF/TR, DS-D5022QE-E, DS-D5022QD, DS-D5022QD-A, DS-D5022QD-B, DS-D5022AK, DS-D5022AK-A, DS-D5024FX, DS-D5024FX-A, DS-D5024FX-C, DS-D5024FX-D, DS-D50FB24, DS-D50FB24-A, DS-D50FB24-B, DS-D50FF24, DS-D50FF24-A, DS-D50FF24-B, DS-D50FW24, DS-D50FW24-A, DS-D50FW24-B, DS-D50FK24, DS-D50FK24-A, DS-D50FK24-B, DS-D5024FL, DS-D5024FL-A, DS-D5024FL-B, DS-D5024FL-C, DS-D5024FL/S, DS-D5024FL/D, DS-D5024FC-A/E, DS-D5024FC-B/F, DS-D5024FC-B/E, DS-D5024FC-B/F, DS-D5024FC-C/E, DS-D5024FC-C/F, DS-D5024FC-D,

Serial Number : Engineering sample  
Remark : Refer to test report CN21GMW2 004 for details.



Certification Body

Date: 2023-04-20

Hongyan Yu

# Appendix No. 3.18



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-D57P22MF/T, DS-D57P22MF/R, DS-D57P22MF/ST,  
DS-D5024FC-D/E, DS-D5024FC-D/F, DS-D5024FC-N/E,  
DS-D5024FC-N/F, DS-D5024FC-H/E, DS-D5024FC-H/F,  
DS-D5024FC-NA, DS-D5024FQ-A, DS-D5024FQ-B,  
DS-D5024FQ-NB, DS-D5024FQ-E, DS-D5024FE-NA,  
DS-D5024FE-E, DS-D5024FE-H, DS-D5024FN-N,  
DS-D5024FN-NA, DS-D5024FN-E, DS-D5024FN-H,  
DS-D5024QQ-A, DS-D5024QQ-B, DS-D5024QQ-NA,  
DS-D5024QQ-E, DS-D5024QE-A, DS-D5024QE-B,  
DS-D5024QE-N, DS-D5024QE-NA, DS-D5024QE-E,  
DS-D5024QE-H, DS-D5024QN-A, DS-D5024QN-B,  
DS-D5024QN-N, DS-D5024QN-NA, DS-D5024QN-E,  
DS-D5024QN-H, DS-D55F24C, DS-D55F24P,  
DS-D55F24M, DS-D55F24CH, DS-D55F24MN,  
DS-D55F24MH, DS-D55F24CNH, DS-D55F24PNH,  
DS-D55F24MNH, DS-D55Q24C, DS-D55Q24P,  
DS-D55Q24M, DS-D55Q24CH, DS-D55Q24MN,  
DS-D55Q24MH, DS-D55Q24CNH, DS-D55Q24PNH,  
DS-D55Q24MNH, HM24F, HM24F-V,  
HM24F-C, HM24F-S, HM24F-CV,  
HM24F-VS, HM24F-CS, HM24F-CVS,  
HM24F-P, HM24F-PV, HM24F-PS,  
HM24F-PVS, HM24F-A, HM24F-CA,  
HM24F-AS, HM24F-CAS, HM24F-PA,  
HM24F-PAS, HM24Q-V, HM24Q-C,  
HM24Q-S, HM24Q-CV, HM24Q-VS,

Serial Number : Engineering sample  
Remark : Refer to test report CN21GMW2 004 for details.



Certification Body

Hongyan Yu

Date: 2023-04-20



# Appendix No. 3.19



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation:	HM24Q-CS, HM24Q-PV, HM24Q-A, HM24Q-CAS, DS-D56FP24C/STR, DS-D56FP24C/ST, DS-D56FP24C/T, DS-D56FP24P, DS-D56FP24P/SR, DS-D56FP24P/R, DS-D56FB24C/ST, DS-D56FB24C/T, DS-D56FB24, DS-D56FB24P/SR, DS-D56FB24P/R, DS-D56FG24C/ST, DS-D56FG24C/T, DS-D56FG24P, DS-D56FG24P/SR, DS-D56FG24P/R, DS-D56FM24C/S, DS-D56FM24C/TR, DS-D56FM24P/STR, DS-D56FM24P/ST,	HM24Q-CVS, HM24Q-PS, HM24Q-CA, HM24Q-PA, DS-D56FP24C, DS-D56FP24C/SR, DS-D56FP24C/R, DS-D56FP24P/S, DS-D56FP24P/TR, DS-D56FB24C/STR, DS-D56FB24C/SR, DS-D56FB24C/R, DS-D56FB24P/S, DS-D56FB24P/TR, DS-D56FG24C/STR, DS-D56FG24C/SR, DS-D56FG24C/R, DS-D56FG24P/S, DS-D56FG24P/TR, DS-D56FM24C/STR, DS-D56FM24C/ST, DS-D56FM24C/T, DS-D56FM24P, DS-D56FM24P/SR,	HM24Q-P, HM24Q-PVS, HM24Q-AS, HM24Q-PAS, DS-D56FP24C/S, DS-D56FP24C/TR, DS-D56FP24P/STR, DS-D56FP24P/ST, DS-D56FP24P/T, DS-D56FB24C/S, DS-D56FB24C/TR, DS-D56FB24P/STR, DS-D56FB24P/ST, DS-D56FB24P/T, DS-D56FG24C/S, DS-D56FG24C/TR, DS-D56FG24P/STR, DS-D56FG24P/ST, DS-D56FG24P/T, DS-D56FM24C, DS-D56FM24C/SR, DS-D56FM24C/R, DS-D56FM24P/S, DS-D56FM24P/TR,
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Serial Number : Engineering sample  
Remark : Refer to test report CN21GMW2 004 for details.



**Certification Body**

**Date:** 2023-04-20

**Hongyan Yu**

**Appendix No. 3.20**



**TÜV Rheinland  
LGA Products GmbH  
Tillystraße 2, 90431 Nürnberg**

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

**Identification:**

Type Designation: DS-D56FM24P/T, DS-D56FM24P/R, DS-D56QP24C/STR,  
DS-D56QP24C, DS-D56QP24C/S, DS-D56QP24C/ST,  
DS-D56QP24C/SR, DS-D56QP24C/TR, ,DS-D56QP24C/T,  
DS-D56QP24C/R, DS-D56QP24P/STR, DS-D56QP24P,  
DS-D56QP24P/S, DS-D56QP24P/ST, DS-D56QP24P/SR,  
DS-D56QP24P/TR, DS-D56QP24P/T, DS-D56QP24P/R,  
DS-D56QB24C/STR, DS-D56QB24C/S, DS-D56QB24C/ST,  
DS-D56QB24C/SR, DS-D56QB24C/TR, DS-D56QB24C/T,  
DS-D56QB24C/R, DS-D56QB24P/STR, DS-D56QB24P/S,  
DS-D56QB24P/ST, DS-D56QB24P/SR, DS-D56QB24P/TR,  
DS-D56QB24P/T, DS-D56QB24P/R, DS-D56QG24C/STR,  
DS-D56QG24C/S, DS-D56QG24C/ST, DS-D56QG24C/SR,  
DS-D56QG24C/TR, DS-D56QG24C/T, DS-D56QG24C/R,  
DS-D56QG24P/STR, DS-D56QG24P/S, DS-D56QG24P/ST,  
DS-D56QG24P/SR, DS-D56QG24P/TR, DS-D56QG24P/T,  
DS-D56QM24C/STR, ,DS-D56QM24C,  
DS-D56QM24C/S, DS-D56QM24C/ST, ,DS-D56QM24C/SR,  
DS-D56QM24C/TR, DS-D56QM24C/T, DS-D56QM24C/R,  
DS-D56QM24P/STR, DS-D56QM24P, DS-D56QM24P/S,  
DS-D56QM24P/ST, DS-D56QM24P/SR, DS-D56QM24P/TR,  
DS-D56QM24P/T, DS-D56QM24P/R, DS-D57P24BF/STR,  
DS-D57P24BF/S, DS-D57P24BF/T, DS-D57P24BF/R,  
DS-D57P24BF/ST, DS-D57P24BF/SR, DS-D57P24BF/TR,  
DS-D57P24GF/STR, DS-D57P24GF, DS-D57P24GF/S,  
DS-D57P24GF/T, DS-D57P24GF/R, DS-D57P24GF/ST,

Serial Number : Engineering sample

Remark : Refer to test report CN21GMW2 004 for details.



**Certification Body**

**Date:** 2023-04-20

**Hongyan Yu**



# Appendix No. 3.21



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-D57P24GF/SR, DS-D57P24GF/TR, DS-D57P24PF/STR,  
DS-D57P24PF, DS-D57P24PF/S, DS-D57P24PF/T,  
DS-D57P24PF/R, DS-D57P24PF/ST, DS-D57P24PF/SR,  
DS-D57P24PF/TR, DS-D57P24MF/STR, DS-D57P24MF,  
DS-D57P24MF/S, DS-D57P24MF/T, DS-D57P24MF/R,  
DS-D57P24MF/ST, DS-D57P24MF/SR, DS-D57P24MF/TR,  
DS-D57C24BF/STR, DS-D57C24BF/S, DS-D57C24BF/T,  
DS-D57C24BF/R, DS-D57C24BF/ST, DS-D57C24BF/SR,  
DS-D57C24BF/TR, DS-D57C24GF/STR, DS-D57C24GF,  
DS-D57C24GF/S, DS-D57C24GF/T, DS-D57C24GF/R,  
DS-D57C24GF/ST, DS-D57C24GF/SR, DS-D57C24GF/TR,  
DS-D57C24PF/STR, DS-D57C24PF, DS-D57C24PF/S,  
DS-D57C24PF/T, DS-D57C24PF/R, DS-D57C24PF/ST,  
DS-D57C24PF/SR, DS-D57C24PF/TR, DS-D57C24MF/STR,  
DS-D57C24MF, DS-D57C24MF/S, DS-D57C24MF/T,  
DS-D57C24MF/R, DS-D57C24MF/ST, DS-D57C24MF/SR,  
DS-D57C24MF/TR, DS-D57P24BQ/STR, DS-D57P24BQ/S,  
DS-D57P24BQ/T, DS-D57P24BQ/R, DS-D57P24BQ/ST,  
DS-D57P24BQ/SR, DS-D57P24BQ/TR, DS-D57P24GQ/STR,  
DS-D57P24GQ/S, DS-D57P24GQ/T, DS-D57P24GQ/R,  
DS-D57P24GQ/ST, DS-D57P24GQ/SR, DS-D57P24GQ/TR,  
DS-D57P24PQ/STR, DS-D57P24PQ, DS-D57P24PQ/S,  
DS-D57P24PQ/T, DS-D57P24PQ/R, DS-D57P24PQ/ST,  
DS-D57P24PQ/SR, DS-D57P24PQ/TR, DS-D57P24MQ/STR,  
DS-D57P24MQ, DS-D57P24MQ/S, DS-D57P24MQ/T,

Serial Number : Engineering sample  
Remark : Refer to test report CN21GMW2 004 for details.



**Certification Body**

**Date:** 2023-04-20

**Hongyan Yu**

# Appendix No. 3.22



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-D57P24MQ/R, DS-D57P24MQ/ST, DS-D57P24MQ/SR,  
DS-D57P24MQ/TR, DS-D57C24BQ/STR, DS-D57C24BQ/S,  
DS-D57C24BQ/T, DS-D57C24BQ/R, DS-D57C24BQ/ST,  
DS-D57C24BQ/SR, DS-D57C24BQ/TR, DS-D57C24GQ/STR,  
DS-D57C24GQ/S, DS-D57C24GQ/T, DS-D57C24GQ/R,  
DS-D57C24GQ/ST, DS-D57C24GQ/SR, DS-D57C24GQ/TR,  
DS-D57C24PQ/STR, DS-D57C24PQ, DS-D57C24PQ/S,  
DS-D57C24PQ/T, DS-D57C24PQ/R,S, DS-D57C24PQ/ST,  
DS-D57C24PQ/SR, DS-D57C24PQ/TR, DS-D57C24MQ/STR,  
DS-D57C24MQ, DS-D57C24MQ/S, DS-D57C24MQ/T,  
DS-D57C24MQ/R, DS-D57C24MQ/ST, DS-D57C24MQ/SR,  
DS-D57C24MQ/TR, DS-D5024QD, DS-D5024QD-A,  
DS-D5024QD-B, DS-D5024QD-S, DS-D5024AK,  
DS-D5024AK-A, DS-D5032FX-A, DS-D5032FX-B,  
DS-D5032FX-C, DS-D5032QX-A, DS-D5032UX-A,  
DS-D5032UX-B, DS-D50FB32, DS-D50FB32-A,  
DS-D50FB32-B, DS-D50FF32, DS-D50FF32-A,  
DS-D50FF32-B, DS-D50FW32, DS-D50FW32-A,  
DS-D50FW32-B, DS-D50FK32, DS-D50FK32-A,  
DS-D50FK32-B, DS-D50UB32, DS-D50UB32-A,  
DS-D50UB32-B, DS-D50UF32, DS-D50UF32-A,  
DS-D50UW32-B, DS-D50UW32, DS-D50UW32-A,  
DS-D50UK32, DS-D50UK32-A,  
DS-D50UK32-B, DS-D5032FL-B, DS-D5032FL-C,  
DS-D5032FL/S, DS-D5032FL/D, DS-D5032FC-A/E,

Serial Number : Engineering sample

Remark : Refer to test report CN21GMW2 004 for details.



Certification Body

Date: 2023-04-20

Hongyan Yu



# Appendix No. 3.23



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-D5032FC-A/F, DS-D5032FC-B/E, DS-D5032FC-B/F, DS-D5032FC-C/E, DS-D5032FC-C/F, DS-D5032FC-D, DS-D5032FC-D/E, DS-D5032FC-D/F, DS-D5032FC-N/E, DS-D5032FC-N/F, DS-D5032FC-H/E, DS-D5032FC-H/F, DS-D5032FC-NA, DS-D5032QL, DS-D5032QL-A, DS-D5032QL-B, DS-D5032QL-C, DS-D5032QL/S, DS-D5032QL/D, DS-D5032QC, DS-D5032QC-A, DS-D5032QC-A/E, DS-D5032QC-A/F, DS-D5032QC-B, DS-D5032QC-B/E, DS-D5032QC-B/F, DS-D5032QC-C, DS-D5032QC-C/E, DS-D5032QC-C/F, DS-D5032QC-D, DS-D5032QC-D/E, DS-D5032QC-D/F, DS-D5032QC-N, DS-D5032QC-N/E, DS-D5032QC-N/F, DS-D5032QC-H, DS-D5032QC-H/E, DS-D5032QC-H/F, DS-D5032QC-NA, DS-D5032UL, DS-D5032UL-A, DS-D5032UL-B, DS-D5032UL-C, DS-D5032UL/S, DS-D5032UL/D, DS-D5032UC-A, DS-D5032UC-A/E, DS-D5032UC-A/F, DS-D5032UC-B, DS-D5032UC-B/E, DS-D5032UC-B/F, DS-D5032UC-C, DS-D5032UC-C/E, DS-D5032UC-C/F, DS-D5032UC-D, DS-D5032UC-D/E, DS-D5032UC-D/F, DS-D5032UC-N, DS-D5032UC-N/E, DS-D5032UC-N/F, DS-D5032UC-H, DS-D5032UC-H/E, DS-D5032UC-H/F, DS-D5032UC-NA, DS-D5032FQ-B, DS-D5032FQ-NA, DS-D5032FQ-E, DS-D5032FE-A, DS-D5032FE-B, DS-D5032FE-C, DS-D5032FE-NA, DS-D5032FE-E, DS-D5032FE-H, DS-D5032FN-A, DS-D5032FN-B, DS-D5032FN-N,

Serial Number : Engineering sample

Remark : Refer to test report CN21GMW2 004 for details.



**Certification Body**

Date: 2023-04-20

Hongyan Yu

# Appendix No. 3.24



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-D5032FN-NA, DS-D5032FN-E, DS-D5032FN-H,  
DS-D5032QQ, DS-D5032QQ-A, DS-D5032QQ-B,  
DS-D5032QQ-C, DS-D5032QQ-N, DS-D5032QQ-NA,  
DS-D5032QQ-E, DS-D5032QQ-H, DS-D5032QE,  
DS-D5032QE-A, DS-D5032QE-B, DS-D5032QE-C,  
DS-D5032QE-N, DS-D5032QE-NA, DS-D5032QE-E,  
DS-D5032QE-H, DS-D5032QN, DS-D5032QN-A,  
DS-D5032QN-B, DS-D5032QN-C, DS-D5032QN-N,  
DS-D5032QN-NA, DS-D5032QN-E, DS-D5032QN-H,  
DS-D5032UQ-A, DS-D5032UQ-B, DS-D5032UQ-NA,  
DS-D5032UQ-E, DS-D5032UE-A, DS-D5032UE-B,  
DS-D5032UE-C, DS-D5032UE-N, DS-D5032UE-NA,  
DS-D5032UE-E, DS-D5032UE-H, DS-D5032UN-A,  
DS-D5032UN-B, DS-D5032UN-N, DS-D5032UN-NA,  
DS-D5032UN-E, DS-D5032UN-H, DS-D55F32C,  
DS-D55F32M, DS-D55F32CH, DS-D55F32MN,  
DS-D55F32MH, DS-D55F32CNH, DS-D55F32PNH,  
DS-D55F32MNH, DS-D55Q32C, DS-D55Q32P,  
DS-D55Q32M, DS-D55Q32CH, DS-D55Q32MN,  
DS-D55Q32MH, DS-D55Q32CNH, DS-D55Q32PNH,  
DS-D55U32M, DS-D55U32C, DS-D55U32P,  
DS-D55U32MN, DS-D55U32CN, DS-D55U32CH,  
DS-D55U32MH, DS-D55U32MNH, DS-D55U32CNH,  
HM32F-V, HM32F-C, HM32F-S, HM32F-CV,

Serial Number : Engineering sample

Remark : Refer to test report CN21GMW2 004 for details.



Certification Body

Date: 2023-04-20

Hongyan Yu



# Appendix No. 3.25



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: HM32F-VS, HM32F-CS, HM32F-CVS,  
HM32F-P, HM32F-PV, HM32F-PS,  
HM32F-PVS, HM32F-A, HM32F-CA,  
HM32F-AS, HM32F-CAS, HM32F-PA,  
HM32F-PAS, HM32Q, HM32Q-V,  
HM32Q-C, HM32Q-S, HM32Q-CV,  
HM32Q-VS, HM32Q-CS, HM32Q-CVS,  
HM32Q-P, HM32Q-PV, HM32Q-PS,  
HM32Q-PVS, HM32Q-A, HM32Q-CA,  
HM32Q-AS, HM32Q-CAS, HM32Q-PA,  
HM32Q-PAS, HM32U, HM32U-V,  
HM32U-C, HM32U-S, HM32U-CV, HM32U-VS,  
HM32U-CS, HM32U-CVS, HM32U-P,  
HM32U-PV, HM32U-PS, HM32U-PVS,  
HM32U-A, HM32U-CA, HM32U-AS,  
HM32U-CAS, HM32U-PA, HM32U-PAS,  
DS-D56FP32C/STR, DS-D56FP32C, DS-D56FP32C/S,  
DS-D56FP32C/ST, DS-D56FP32C/SR, DS-D56FP32C/TR,  
DS-D56FP32C/T, DS-D56FP32C/R, DS-D56FP32P/STR,  
DS-D56FP32P, DS-D56FP32P/S, DS-D56FP32P/ST,  
DS-D56FP32P/SR, DS-D56FP32P/TR, DS-D56FP32P/T,  
DS-D56FB32C/S, DS-D56FB32C/STR, DS-D56FB32C,  
DS-D56FB32C/S, DS-D56FB32C/ST, DS-D56FB32C/SR,  
DS-D56FB32C/TR, DS-D56FB32C/T, DS-D56FB32C/R,  
DS-D56FB32P/STR, DS-D56FB32P, DS-D56FB32P/S,  
DS-D56FB32P/ST, DS-D56FB32P/SR, DS-D56FB32P/TR,

Serial Number : Engineering sample

Remark : Refer to test report CN21GMW2 004 for details.



**Certification Body**

Hongyan Yu

**Date:** 2023-04-20

# Appendix No. 3.26



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-D56FB32P/T, DS-D56FB32P/R, DS-D56FG32C/STR,  
DS-D56FG32C, DS-D56FG32C/S, DS-D56FG32C/ST,  
DS-D56FG32C/SR, DS-D56FG32C/TR, DS-D56FG32C/T,  
DS-D56FG32C/R, DS-D56FG32P/STR, DS-D56FG32P,  
DS-D56FG32P/S, DS-D56FG32P/ST, DS-D56FG32P/SR,  
DS-D56FG32P/TR, DS-D56FG32P/T, DS-D56FG32P/R,  
DS-D56FM32C/STR, DS-D56FM32C, DS-D56FM32C/S,  
DS-D56FM32C/ST, DS-D56FM32C/SR, DS-D56FM32C/TR,  
DS-D56FM32C/T, DS-D56FM32C/R, DS-D56FM32P/STR,  
DS-D56FM32P, DS-D56FM32P/S, DS-D56FM32P/ST,  
DS-D56FM32P/SR, DS-D56FM32P/TR, DS-D56FM32P/T,  
DS-D56FM32P/R, DS-D56QP32C/STR, DS-D56QP32C,  
DS-D56QP32C/S, DS-D56QP32C/ST, DS-D56QP32C/SR,  
DS-D56QP32C/TR, DS-D56QP32C/T, DS-D56QP32C/R,  
DS-D56QP32P/STR, DS-D56QP32P, DS-D56QP32P/S,  
DS-D56QP32P/ST, DS-D56QP32P/SR, DS-D56QP32P/TR,  
DS-D56QP32P/T, DS-D56QP32P/R, DS-D56QB32C/STR,  
DS-D56QB32C, DS-D56QB32C/S, DS-D56QB32C/ST,  
DS-D56QB32C/SR, DS-D56QB32C/TR, DS-D56QB32C/T,  
DS-D56QB32C/R, DS-D56QB32P/STR, DS-D56QB32P,  
DS-D56QB32P/S, DS-D56QB32P/ST, DS-D56QB32P/SR,  
DS-D56QG32C/S, DS-D56QG32C/STR, DS-D56QG32C,  
DS-D56QG32C/ST, DS-D56QG32C/ST, DS-D56QG32C/SR,  
DS-D56QG32C/TR, DS-D56QG32C/T, DS-D56QG32C/R,  
DS-D56QG32P/STR, DS-D56QG32P, DS-D56QG32P/S,

Serial Number : Engineering sample

Remark : Refer to test report CN21GMW2 004 for details.



Certification Body

Date: 2023-04-20

Hongyan Yu



# Appendix No. 3.27



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-D56QG32P/ST, DS-D56QG32P/SR, DS-D56QG32P/TR,  
DS-D56QG32P/T, DS-D56QG32P/R, DS-D56QM32C/STR,  
DS-D56QM32C, DS-D56QM32C/S, DS-D56QM32C/ST,  
DS-D56QM32C/SR, DS-D56QM32C/TR, DS-D56QM32C/T,  
DS-D56QM32C/R, DS-D56QM32P/STR, DS-D56QM32P,  
DS-D56QM32P/S, DS-D56QM32P/ST, DS-D56QM32P/SR,  
DS-D56QM32P/TR, DS-D56QM32P/T, DS-D56QM32P/R,  
DS-D56UP32C/STR, DS-D56UP32C, DS-D56UP32C/S,  
DS-D56UP32C/ST, DS-D56UP32C/SR, DS-D56UP32C/TR,  
DS-D56UP32C/T, DS-D56UP32C/R, DS-D56UP32P/STR,  
DS-D56UP32P, DS-D56UP32P/S, DS-D56UP32P/ST,  
DS-D56UP32P/SR, DS-D56UP32P/TR, DS-D56UP32P/T,  
DS-D56UP32P/R, DS-D56UB32C/STR, DS-D56UB32C,  
DS-D56UB32C/S, DS-D56UB32C/ST, DS-D56UB32C/SR,  
DS-D56UB32C/TR, DS-D56UB32C/T, DS-D56UB32C/R,  
DS-D56UB32P/STR, DS-D56UB32P, DS-D56UB32P/S,  
DS-D56UB32P/ST, DS-D56UB32P/SR, DS-D56UB32P/T,  
DS-D56UB32P/R, DS-D56UG32C/STR, DS-D56UG32C,  
DS-D56UG32C/S, DS-D56UG32C/ST, DS-D56UG32C/SR,  
DS-D56UG32C/TR, DS-D56UG32C/T, DS-D56UG32C/R,  
DS-D56UG32P/STR, DS-D56UG32P, DS-D56UG32P/S,  
DS-D56UG32P/ST, DS-D56UG32P/SR, DS-D56UG32P/TR,  
DS-D56UG32P/T, DS-D56UG32P/R, DS-D56UM32C/STR,  
DS-D56UM32C, DS-D56UM32C/S, DS-D56UM32C/ST,  
DS-D56UM32C/SR, DS-D56UM32C/TR, DS-D56UM32C/T,

Serial Number : Engineering sample

Remark : Refer to test report CN21GMW2 004 for details.



**Certification Body**

**Date:** 2023-04-20

Hongyan Yu

# Appendix No. 3.28



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-D56UM32C/R, DS-D56UM32P/STR, DS-D56UM32P, DS-D56UM32P/ST, DS-D56UM32P/TR, DS-D56UM32P/T, DS-D56UM32P/R, DS-D56UM32P/SR, DS-D57P32BF/STR, DS-D57P32BF/S, DS-D57P32BF/T, DS-D57P32BF/R, DS-D57P32BF/ST, DS-D57P32BF/SR, DS-D57P32GF/STR, DS-D57P32GF/T, DS-D57P32GF/R, DS-D57P32GF/S, DS-D57P32GF/ST, DS-D57P32GF/SR, DS-D57P32GF/TR, DS-D57P32PF/STR, DS-D57P32PF/S, DS-D57P32PF/T, DS-D57P32PF/R, DS-D57P32PF/ST, DS-D57P32PF/SR, DS-D57P32PF/TR, DS-D57P32MF/STR, DS-D57P32MF/S, DS-D57P32MF/T, DS-D57P32MF/R, DS-D57P32MF/ST, DS-D57P32MF/SR, DS-D57C32BF/STR, DS-D57C32BF/S, DS-D57C32BF/R, DS-D57C32BF/ST, DS-D57C32BF/TR, DS-D57C32BF/SR, DS-D57C32BF/TR, DS-D57C32GF/STR, DS-D57C32GF/S, DS-D57C32GF/T, DS-D57C32GF/R, DS-D57C32GF/ST, DS-D57C32GF/SR, DS-D57C32GF/TR, DS-D57C32PF/STR, DS-D57C32PF/S, DS-D57C32PF/T, DS-D57C32PF/R, DS-D57C32PF/ST, DS-D57C32PF/SR, DS-D57C32PF/TR, DS-D57C32MF/STR, DS-D57C32MF/S, DS-D57C32MF/T, DS-D57C32MF/R, DS-D57C32MF/ST, DS-D57C32MF/SR, DS-D57C32MF/TR, DS-D57P32BQ/STR, DS-D57P32BQ/S, DS-D57P32BQ/R, DS-D57P32BQ/ST,

Serial Number : Engineering sample

Remark : Refer to test report CN21GMW2 004 for details.



**Certification Body**

Hongyan Yu

Date: 2023-04-20



**Appendix No. 3.29**



**TÜV Rheinland  
LGA Products GmbH  
Tillystraße 2, 90431 Nürnberg**

**Attachment to  
Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

**Identification:**

Type Designation: DS-D57P32BQ/SR, DS-D57P32BQ/TR, DS-D57P32GQ/STR,  
DS-D57P32GQ/S, DS-D57P32GQ/R, DS-D57P32GQ/ST,  
DS-D57P32GQ/SR, DS-D57P32GQ/TR, DS-D57P32PQ/STR,  
DS-D57P32PQ/S, DS-D57P32PQ/T, DS-D57P32PQ/R,  
DS-D57P32PQ/ST, DS-D57P32PQ/SR, DS-D57P32PQ/TR,  
DS-D57P32MQ/STR, DS-D57P32MQ/S, DS-D57P32MQ/T,  
DS-D57P32MQ/R, DS-D57P32MQ/ST, DS-D57P32MQ/SR,  
DS-D57P32MQ/TR, DS-D57C32BQ/STR, DS-D57C32BQ/S,  
DS-D57C32BQ/R, DS-D57C32BQ/ST, DS-D57C32BQ/SR,  
DS-D57C32BQ/TR, DS-D57C32GQ/STR, DS-D57C32GQ/S,  
DS-D57C32GQ/R, DS-D57C32GQ/ST, DS-D57C32GQ/SR,  
DS-D57C32GQ/TR, DS-D57C32PQ/STR, DS-D57C32PQ,  
DS-D57C32PQ/S, DS-D57C32PQ/T, DS-D57C32PQ/R,  
SDS-D57C32PQ/ST, DS-D57C32PQ/SR, DS-D57C32PQ/TR,  
DS-D57C32MQ/STR, DS-D57C32MQ, DS-D57C32MQ/S,  
DS-D57C32MQ/T, DS-D57C32MQ/R, DS-D57C32MQ/ST,  
DS-D57C32MQ/SR, DS-D57C32MQ/TR, DS-D57P32BU/STR,  
DS-D57P32BU/S, DS-D57P32BU/T, DS-D57P32BU/R,  
DS-D57P32BU/ST, DS-D57P32BU/SR, DS-D57P32GU/STR,  
DS-D57P32GU/S, DS-D57P32GU/T, DS-D57P32GU/R,  
DS-D57P32GU/ST, DS-D57P32GU/SR, DS-D57P32PU/STR,  
DS-D57P32PU/S, DS-D57P32PU/T, DS-D57P32PU/R,  
DS-D57P32PU/ST, DS-D57P32PU/SR, DS-D57P32PU/TR,  
DS-D57P32MU/STR, DS-D57P32MU/S, DS-D57P32MU/T,  
DS-D57P32MU/R, DS-D57P32MU/ST, DS-D57P32MU/SR,

Serial Number : Engineering sample  
Remark : Refer to test report CN21GMW2 004 for details.



**Certification Body**

**Date:** 2023-04-20

**Hongyan Yu**

# Appendix No. 3.30



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-D57P32MU/TR, DS-D57C32BU/STR, DS-D57C32BU/S,  
DS-D57C32BU/T, DS-D57C32BU/R, DS-D57C32BU/ST,  
DS-D57C32BU/SR, DS-D57C32GU/STR, DS-D57C32GU/S,  
DS-D57C32GU/T, DS-D57C32GU/R, DS-D57C32GU/ST,  
DS-D57C32GU/SR, DS-D57C32PU/STR, DS-D57C32PU,  
DS-D57C32PU/S, DS-D57C32PU/T, DS-D57C32PU/R,  
SDS-D57C32PU/ST, DS-D57C32PU/SR, DS-D57C32PU/TR,  
DS-D57C32MU/STR, DS-D57C32MU, DS-D57C32MU/S,  
DS-D57C32MU/T, DS-D57C32MU/R, DS-D57C32MU/ST,  
DS-D57C32MU/SR, DS-D57C32MU/TR, DS-D5032QD,  
DS-D5032QD-A, DS-D5032QD-B, DS-D5032QD-S,  
DS-D5032AK, DS-D5032AK-A, DS-D50FB43,  
DS-D50FB43-A, DS-D50FK43, DS-D50FK43-A,  
DS-D50UB43, DS-D50UB43-A, DS-D50UK43,  
DS-D50UK43-A, DS-D5043FL/S, DS-D5043FL/D,  
DS-D5043FL/P, DS-D5043FL-A/E, DS-D5043FL-A/P,  
DS-D5043FL-A/F, DS-D5043FL-C, DS-D5043FL-D,  
DS-D5043FC-A/E, DS-D5043FC-A/D, DS-D5043FC-A/S,  
DS-D5043FC-A/P, DS-D5043FC-A/F, DS-D5043FC-B,  
DS-D5043FC-C, DS-D5043FC-D, DS-D5043FL-N,  
DS-D5043FL-NA, DS-D5043FL-NB, DS-D5043FL-N/E,  
DS-D5043FL-N/D, DS-D5043FL-N/S, DS-D5043FL-N/P,  
DS-D5043FC-NA, DS-D5043FC-NB, DS-D5043FC-N/E,D  
S-D5043FC-N/D, DS-D5043FC-N/S, DS-D5043FC-N/P,

Serial Number : Engineering sample

Remark : Refer to test report CN21GMW2 004 for details.



Certification Body

Date: 2023-04-20

Hongyan Yu



# Appendix No. 3.31



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-D5043FC-N/F, DS-D5043UL/S, DS-D5043UL/D,D  
S-D5043UL/P, DS-D5043UL-A/E, DS-D5043UL-A/P,  
DS-D5043UL-A/F, DS-D5043UL-B, DS-D5043UL-C,  
DS-D5043UL-D, DS-D5043UC-A/E, DS-D5043UC-A/P,  
DS-D5043UC-A/F, DS-D5043UC-B, DS-D5043UC-D,  
DS-D5043UL-N, DS-D5043UL-NA, DS-D5043UL-NB,  
DS-D5043UL-N/E, DS-D5043UL-N/D, DS-D5043UL-N/S,  
DS-D5043UL-N/P, DS-D5043UC-NA, DS-D5043UC-NB,  
DS-D5043UC-N/E, DS-D5043UC-N/D, DS-D5043UC-N/S,  
DS-D5043UC-N/P, DS-D5043UC-N/F, DS-D5043UHL-N,  
DS-D5043UHL-NA, DS-D5043UHL-A, DS-D5043UHL-B,  
DS-D5043UP, DS-D5043FQ-C, DS-D5043FQ-D,  
DS-D5043FQ-NA, DS-D5043FE-A, DS-D5043FE-B,  
DS-D5043FE-C, DS-D5043FE-D, DS-D5043FE-NA,  
DS-D5043UQ-C, DS-D5043UQ-D, DS-D5043UQ-NA,  
DS-D5043UE-A, DS-D5043UE-B, DS-D5043UE-C,  
DS-D5043UE-D, DS-D5043UE-NA, DS-D55F43C,  
DS-D55F43CN, DS-D55U43C, DS-D55U43CN,  
DS-D50FB49, DS-D50FB49-A, DS-D50FK49,  
DS-D50FK49-A, DS-D50UB49, DS-D50UB49-A,  
DS-D50UK49, DS-D50UK49-A, DS-D5049FL,  
DS-D5049FL/S, DS-D5049FL/D, DS-D5049FL/P,  
DS-D5049FL-A, DS-D5049FL-A/E, DS-D5049FL-A/D,  
DS-D5049FL-A/S, DS-D5049FL-A/P, DS-D5049FL-A/F,  
DS-D5049FL-B, DS-D5049FL-C, DS-D5049FL-D,

Serial Number : Engineering sample

Remark : Refer to test report CN21GMW2 004 for details.



Certification Body

Date: 2023-04-20

Hongyan Yu



**Appendix No. 3.32**



**TÜV Rheinland  
LGA Products GmbH  
Tillystraße 2, 90431 Nürnberg**

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

**Identification:**

Type Designation: DS-D5049FC, DS-D5049FC-A, DS-D5049FC-A/E,  
DS-D5049FC-A/D, DS-D5049FC-A/S, DS-D5049FC-A/P,  
DS-D5049FC-A/F, DS-D5049FC-B, DS-D5049FC-C,  
DS-D5049FC-D, DS-D5049FL-N, DS-D5049FL-NA  
DS-D5049FL-NB, DS-D5049FL-N/E, DS-D5049FL-N/D,  
DS-D5049FL-N/S, DS-D5049FL-N/P, DS-D5049FC-N,  
DS-D5049FC-NA, DS-D5049FC-NB, DS-D5049FC-N/E,  
DS-D5049FC-N/D, DS-D5049FC-N/S, DS-D5049FC-N/P,  
DS-D5049FC-N/F, DS-D5049UL, DS-D5049UL/S,  
DS-D5049UL/D, DS-D5049UL/P, DS-D5049UL-A,  
DS-D5049UL-A/E, DS-D5049UL-A/D, DS-D5049UL-A/S,  
DS-D5049UL-A/P, DS-D5049UL-A/F, DS-D5049UL-B,  
DS-D5049UL-C, DS-D5049UL-D, DS-D5049UC,  
DS-D5049UC-A, DS-D5049UC-A/E, DS-D5049UC-A/D,  
DS-D5049UC-A/S, DS-D5049UC-A/P, DS-D5049UC-A/F,  
DS-D5049UC-B, DS-D5049UC-C, DS-D5049UC-D,  
DS-D5049UL-N, DS-D5049UL-NA, DS-D5049UL-NB,  
DS-D5049UL-N/E, DS-D5049UL-N/D, DS-D5049UL-N/S,  
DS-D5049UL-N/P, DS-D5049UC-N, DS-D5049UC-NA,  
DS-D5049UC-NB, DS-D5049UC-N/E, DS-D5049UC-N/D,  
DS-D5049UC-N/S, DS-D5049UC-N/P, DS-D5049UC-N/F,  
DS-D5049UHL, DS-D5049UHL-N, DS-D5049UHL-NA,  
DS-D5049UHL-A, DS-D5049UHL-B, DS-D5049UP,  
DS-D5049FQ, DS-D5049FQ-A, DS-D5049FQ-B,

Serial Number : Engineering sample

Remark : Refer to test report CN21GMW2 004 for details.



**Certification Body**

**Date:** 2023-04-20

**Hongyan Yu**

# Appendix No. 3.33



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-D5049FC, DS-D5049FC-A, DS-D5049FC-A/E,  
DS-D5049FC-A/D, DS-D5049FC-A/S, DS-D5049FC-A/P,  
DS-D5049FC-A/F, DS-D5049FC-B, DS-D5049FC-C,  
DS-D5049FC-D, DS-D5049FL-N, DS-D5049FL-NA  
DS-D5049FL-NB, DS-D5049FL-N/E, DS-D5049FL-N/D,  
DS-D5049FL-N/S, DS-D5049FL-N/P, DS-D5049FC-N,  
DS-D5049FC-NA, DS-D5049FC-NB, DS-D5049FC-N/E,  
DS-D5049FC-N/D, DS-D5049FC-N/S, DS-D5049FC-N/P,  
DS-D5049FC-N/F, DS-D5049UL, DS-D5049UL/S,  
DS-D5049UL/D, DS-D5049UL/P, DS-D5049UL-A,  
DS-D5049UL-A/E, DS-D5049UL-A/D, DS-D5049UL-A/S,  
DS-D5049UL-A/P, DS-D5049UL-A/F, DS-D5049UL-B,  
DS-D5049UL-C, DS-D5049UL-D, DS-D5049UC,  
DS-D5049UC-A, DS-D5049UC-A/E, DS-D5049UC-A/D,  
DS-D5049UC-A/S, DS-D5049UC-A/P, DS-D5049UC-A/F,  
DS-D5049UC-B, DS-D5049UC-C, DS-D5049UC-D,  
DS-D5049UL-N, DS-D5049UL-NA, DS-D5049UL-NB,  
DS-D5049UL-N/E, DS-D5049UL-N/D, DS-D5049UL-N/S,  
DS-D5049UL-N/P, DS-D5049UC-N, DS-D5049UC-NA,  
DS-D5049UC-NB, DS-D5049UC-N/E, DS-D5049UC-N/D,  
DS-D5049UC-N/S, DS-D5049UC-N/P, DS-D5049UC-N/F,  
DS-D5049UHL, DS-D5049UHL-N, DS-D5049UHL-NA,  
DS-D5049UHL-A, DS-D5049UHL-B, DS-D5049UP,  
DS-D5049FQ, DS-D5049FQ-A, DS-D5049FQ-B,

Serial Number : Engineering sample

Remark : Refer to test report CN21GMW2 004 for details.



**Certification Body**

**Date:** 2023-04-20

Hongyan Yu



# Appendix No. 3.34



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-D5050FL-N/E, DS-D5050FL-N/D, DS-D5050FL-N/S,  
DS-D5050UL, DS-D5050UL-A, DS-D5050UL-A/E,  
DS-D5050UL-A/D, DS-D5050UL-A/S, DS-D5050UL-A/F,  
DS-D5050UL-B, DS-D5050UL-B/E, DS-D5050UL-B/D,  
DS-D5050UL-B/S, DS-D5050UL-B/F, DS-D5050UL-C,  
DS-D5050UL-C/E, DS-D5050UL-C/D, DS-D5050UL-C/S,  
DS-D5050UL-C/F, DS-D5050UL-D, DS-D5050UL-D/E,  
DS-D5050UL-D/D, DS-D5050UL-D/S, DS-D5050UL-D/F,  
DS-D5050UL-N, DS-D5050UL-N/E, DS-D5050UL-N/D,  
DS-D5050UL-N/S, DS-D5050UL-N/F, DS-D5050FC,  
DS-D5050FC-A, DS-D5050FC-A/E, DS-D5050FC-A/D,  
DS-D5050FC-A/S, DS-D5050FC-B, DS-D5050FC-B/E,  
DS-D5050FC-B/D, DS-D5050FC-B/S, DS-D5050FC-C,  
DS-D5050FC-C/E, DS-D5050FC-C/D, DS-D5050FC-C/S,  
DS-D5050FC-D, DS-D5050FC-D/E, DS-D5050FC-D/D,  
DS-D5050FC-D/S, DS-D5050FC-N, DS-D5050FC-N/E,  
DS-D5050FC-N/D, DS-D5050FC-N/S, DS-D5050UC-A/E,  
DS-D5050UC-A/D, DS-D5050UC-A/S, DS-D5050UC-A/F,  
DS-D5050UC-B/E, DS-D5050UC-B/D, DS-D5050UC-B/S,  
DS-D5050UC-B/F, DS-D5050UC-C/E, DS-D5050UC-C/D,  
DS-D5050UC-C/S, DS-D5050UC-C/F, DS-D5050UC-D,  
DS-D5050UC-D/E, DS-D5050UC-D/D, DS-D5050UC-D/S,  
DS-D5050UC-D/F, DS-D5050UC-N/E, DS-D5050UC-N/D,  
DS-D5050UC-N/S, DS-D5050UC-N/F, DS-D5050FQ,  
DS-D5050FQ-A, DS-D5050FQ-B, DS-D5050FQ-C,

Serial Number : Engineering sample  
Remark : Refer to test report CN21GMW2 004 for details.



**Certification Body**

**Date:** 2023-04-20

**Hongyan Yu**

# Appendix No. 3.35



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-D5050FQ-D, DS-D5050FE, DS-D5050FE-C, DS-D5050FE-F, DS-D5050UQ-D, DS-D5050UE-B, DS-D5050UE-E, DS-D5050FN-A, DS-D5050FN-D, DS-D5050QE-A, DS-D5050QE-D, DS-D5050QD-A, DS-D5050FL/S, DS-D5050UN-C, DS-D5050UL/S, DS-D5050UL/D, DS-D5050AK, DS-D50FB55-A, DS-D50UB55, DS-D50UK55-A, DS-D5055FL/D, DS-D5055FL-A/E, DS-D5055FL-A/P, DS-D5055FC-A/D, DS-D5055FC-A/F, DS-D5055FC-A/S, DS-D5055FC-A/P, DS-D5055FL-N, DS-D5050FQ-E, DS-D5050FE-A, DS-D5050FE-D, DS-D5050FE-N, DS-D5050UQ-E, DS-D5050UE-C, DS-D5050UE-F, DS-D5050FN-B, DS-D5050FN-E, DS-D5050QE-B, DS-D5050QE-E, DS-D5050QD-B, DS-D5050UN-A, DS-D5050UN-D, DS-D50UB50, DS-D5050FL/D, DS-D5050AK-A, DS-D50FK55, DS-D50UB55-A, DS-D5055FL, DS-D5055FL/P, DS-D5055FL-A/D, DS-D5055FL-A/F, DS-D5055FC-A/S, DS-D5055FC-A/P, DS-D5055FL-NA, DS-D5050FQ-N, DS-D5050FE-B, DS-D5050FE-E, DS-D5050UQ-C, DS-D5050UE-A, DS-D5050UE-D, DS-D5050FN, DS-D5050FN-C, DS-D5050QE, DS-D5050QE-C, DS-D5050QD, DS-D5050QD-S, DS-D5050UN-B, DS-D5050UN-E, DS-D5050UHL, DS-D5050UP, DS-D50FB55, DS-D50FK55-A, DS-D50UK55, DS-D5055FL/S, DS-D5055FL-A, DS-D5055FL-A/S, DS-D5055FC-A/E, DS-D5055FC-A/P, DS-D5055FC-A/S, DS-D5055FC-A/P, DS-D5055FL-NA,

Serial Number : Engineering sample  
Remark : Refer to test report CN21GMW2 004 for details.



Certification Body

Date: 2023-04-20

Hongyan Yu



# Appendix No. 3.36



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-D5055FL-NB, DS-D5055FL-N/E, DS-D5055FL-N/D,  
DS-D5055FL-N/S, DS-D5055FL-N/P, DS-D5055FC-N,  
DS-D5055FC-NB, DS-D5055FC-N/E, DS-D5055FC-N/D,  
DS-D5055FC-N/S, DS-D5055FC-N/P, DS-D5055FC-N/F,  
DS-D5055UL/S, DS-D5055UL/D, DS-D5055UL/P,  
DS-D5055UL-A/E, DS-D5055UL-A/P, DS-D5055UL-A/F,  
DS-D5055UC-A/E, DS-D5055UC-A/D, DS-D5055UC-A/S,  
DS-D5055UC-A/P, DS-D5055UC-A/F, DS-D5055UL-N,  
DS-D5055UL-NA, DS-D5055UL-NB, DS-D5055UL-N/E,  
DS-D5055UL-N/D, DS-D5055UL-N/S, DS-D5055UL-N/P,  
DS-D5055UC-NA, DS-D5055UC-NB, DS-D5055UC-N/E,  
DS-D5055UC-N/D, DS-D5055UC-N/S, DS-D5055UC-N/P,  
DS-D5055UC-N/F, DS-D5055UHL-N, DS-D5055UHL-NA,  
DS-D5055UHL-A, DS-D5055UHL-B, DS-D5055UP,  
DS-D5055FQ, DS-D5055FQ-A, DS-D5055FQ-B,  
DS-D5055FQ-C, DS-D5055FQ-D, DS-D5055FQ-N,  
DS-D5055FQ-NA, DS-D5055FE-N, DS-D5055FE-NA,  
DS-D5055UQ-C, DS-D5055UQ-D, DS-D5055UQ-NA,  
DS-D5055UE-NA, DS-D55F55C, DS-D55F55CN,  
DS-D55F55P, DS-D55F55PN, DS-D55U55C,  
DS-D55U55CN, DS-D5065UH, DS-D5065UC-A/F,  
DS-D5075UL, DS-D5075UL-C, DS-D5075UH,  
DS-D5075UC, DS-D5075UC-A, DS-D5075UC-B,  
DS-D5075UC-C, DS-D5075UE, DS-D5075UE-A,  
DS-D5075UE-B, DS-D5086UL, DS-D5086UL-C,

Serial Number : Engineering sample

Remark : Refer to test report CN21GMW2 004 for details.



**Certification Body**

**Date:** 2023-04-20

Hongyan Yu



# Appendix No. 3.37



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-D5086UH, DS-D5086UC, DS-D5086UC-A,  
DS-D5086UC-B, DS-D5086UC-C, DS-D5098UL,  
DS-D5098UL-B, DS-D5098UL-C, DS-D5098UH,  
DS-D5098UC, DS-D5098UC-A, DS-D5098UC-B,  
DS-D5098UC-C, DS-D50FB19, DS-D50FB19-A,  
DS-D50FK19, DS-D50FK19-A, DS-D5019FC-A/E,  
DS-D5019FC-A/D, DS-D5019FC-A/S, DS-D5019FC-A/T,  
DS-D5019FC-A/P, DS-D5019FC-A/F, DS-D5019FC-C/E,  
DS-D5019FC-C/D, DS-D5019FC-C/S, DS-D5019FC-C/T,  
DS-D5019FC-C/P, DS-D5019FC-C/F, DS-D5019FC-D/E,  
DS-D5019FC-D/D, DS-D5019FC-D/S, DS-D5019FC-D/T,  
DS-D5019FC-D/P, DS-D5019FC-D/F, DS-D5019FC-N,  
DS-D5019FC-N/E, DS-D5019FC-N/D, DS-D5019FC-N/S,  
DS-D5019FC-N/T, DS-D5019FC-N/P, DS-D5019FC-N/F,  
DS-D5019FC-H, DS-D5019FC-H/E, DS-D5019FC-H/D,  
DS-D5019FC-H/S, DS-D5019FC-H/T, DS-D5019FC-H/P,  
DS-D5019FC-H/F, DS-D5024UHL, DS-D5027UHL,  
DS-D5032UHL, DS-D5050UHL, DS-D5019FC-NA,  
DS-D5019FC-NA/E, DS-D5019FC-NA/D, DS-D5019FC-NA/S,  
DS-D5019FC-NA/T, DS-D5019FC-NA/P, DS-D5019FC-NA/F,  
DS-D5022FC-NA, DS-D5022FC-NA/E, DS-D5022FC-NA/D,  
DS-D5022FC-NA/S, DS-D5022FC-NA/T, DS-D5022FC-NA/P,  
DS-D5022FC-NA/F, DS-D5024FC-NA, DS-D5024FC-NA/E,  
DS-D5024FC-NA/D, DS-D5024FC-NA/S, DS-D5024FC-NA/T,  
DS-D5024FC-NA/P, DS-D5024FC-NA/F, DS-D5027FC-NA,

Serial Number : Engineering sample

Remark : Refer to test report CN21GMW2 004 for details.



Certification Body

Date: 2023-04-20

Hongyan Yu

# Appendix No. 3.38



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-D5019QC-D, DS-D5019QN, DS-D5019QN-C, DS-D5022FL-C, DS-D5022FE-B, DS-D5022FN-D, DS-D5022QL-B, DS-D5022QC-D, DS-D5024FL-A, DS-D5024FL-D, DS-D5024FE-D, DS-D5024QL-A, DS-D5024QL-D, DS-D5024QE-A, DS-D5024QE-D, DS-D5024UL, DS-D5024UL-C, DS-D5024UC-D, DS-D5024UE-C, DS-D5024UN-B, DS-D5027FL-B, DS-D5027FE-A, DS-D5027FE-D, DS-D5027QL, DS-D5027QL-C, DS-D5019QE-C, DS-D5019QN-A, DS-D5019QN-D, DS-D5022FL-D, DS-D5022FE-C, DS-D5022QL, DS-D5022QL-C, DS-D5022QE-D, DS-D5024FL-B, DS-D5024FC-D, DS-D5024FN-D, DS-D5024QL-B, DS-D5024QC-B, DS-D5024QE-B, DS-D5024QN-A, DS-D5024UL-A, DS-D5024UL-D, DS-D5024UE-A, DS-D5024UE-D, DS-D5027FL, DS-D5027FL-C, DS-D5027FE-B, DS-D5027FN-A, DS-D5027QL-A, DS-D5027QL-D, DS-D5019QE-D, DS-D5019QN-B, DS-D5022FL-B, DS-D5022FC-D, DS-D5022FE-D, DS-D5022QL-A, DS-D5022QL-D, DS-D5024FL, DS-D5024FL-C, DS-D5024FE-C, DS-D5024QL, DS-D5024QL-C, DS-D5024QC-D, DS-D5024QE-C, DS-D5024QN-B, DS-D5024UL-B, DS-D5024UC-B, DS-D5024UE-B, DS-D5024UN-A, DS-D5027FL-A, DS-D5027FL-D, DS-D5027FE-C, DS-D5027FN-B, DS-D5027QL-B, DS-D5027QC-A,

Serial Number : Engineering sample  
Remark : Refer to test report CN21GMW2 004 for details.



**Certification Body**

**Date:** 2023-04-20

**Hongyan Yu**



# Appendix No. 3.39



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-D5027QC-B, DS-D5027QE-A, DS-D5027QE-B,  
DS-D5027QE-C, DS-D5027QE-D, DS-D5027QN-A,  
DS-D5027QN-B, DS-D5027UL, DS-D5027UL-A,  
DS-D5027UL-B, DS-D5027UL-C, DS-D5027UL-D,  
DS-D5027UC-A, DS-D5027UC-B, DS-D5027UC-D,  
DS-D5027UE, DS-D5027UE-A, DS-D5027UE-B,  
DS-D5027UE-C, DS-D5027UE-D, DS-D5027UN-A,  
DS-D5027UN-B, DS-D5027UN-D, DS-D5032FL-B,  
DS-D5032FL-C, DS-D5032FL-D, DS-D5032FC-D,  
DS-D5032FE-A, DS-D5032FE-B, DS-D5032FE-C,  
DS-D5032FE-D, DS-D5032FN-A, DS-D5032FN-B,  
DS-D5032FN-D, DS-D5032UL, DS-D5032UL-A,  
DS-D5032UL-B, DS-D5032UL-C, DS-D5032UL-D,  
DS-D5032UC-A, DS-D5032UC-B, DS-D5032UC-D,  
DS-D5032UE-A, DS-D5032UE-B, DS-D5032UE-C,  
DS-D5032UE-D, DS-D5032UN-A, DS-D5032UN-B,  
DS-D5032UN-D, DS-D5043FL-C, DS-D5043FL-D,  
DS-D5043FC-B, DS-D5043FC-C, DS-D5043FC-D,  
DS-D5043FE-A, DS-D5043FE-B, DS-D5043FE-C,  
DS-D5043FE-D, DS-D5043FN-A, DS-D5043FN-B,  
DS-D5043FN-D, DS-D5043UL-B, DS-D5043UL-C,  
DS-D5043UL-D, DS-D5043UC-B, DS-D5043UC-D,  
DS-D5043UE-A, DS-D5043UE-B, DS-D5043UE-C,  
DS-D5043UE-D, DS-D5043UN-A, DS-D5043UN-B,  
DS-D5043UN-C, DS-D5043UN-D, DS-D5049FL,

Serial Number : Engineering sample  
Remark : Refer to test report CN21GMW2 004 for details.



**Certification Body**

**Date:** 2023-04-20

**Hongyan Yu**

# Appendix No. 3.40



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-D5027QC-B, DS-D5027QE-A, DS-D5027QE-B,  
DS-D5027QE-C, DS-D5027QE-D, DS-D5027QN-A,  
DS-D5027QN-B, DS-D5027UL, DS-D5027UL-A,  
DS-D5027UL-B, DS-D5027UL-C, DS-D5027UL-D,  
DS-D5027UC-A, DS-D5027UC-B, DS-D5027UC-D,  
DS-D5027UE, DS-D5027UE-A, DS-D5027UE-B,  
DS-D5027UE-C, DS-D5027UE-D, DS-D5027UN-A,  
DS-D5027UN-B, DS-D5027UN-D, DS-D5032FL-B,  
DS-D5032FL-C, DS-D5032FL-D, DS-D5032FC-D,  
DS-D5032FE-A, DS-D5032FE-B, DS-D5032FE-C,  
DS-D5032FE-D, DS-D5032FN-A, DS-D5032FN-B,  
DS-D5032FN-D, DS-D5032UL, DS-D5032UL-A,  
DS-D5032UL-B, DS-D5032UL-C, DS-D5032UL-D,  
DS-D5032UC-A, DS-D5032UC-B, DS-D5032UC-D,  
DS-D5032UE-A, DS-D5032UE-B, DS-D5032UE-C,  
DS-D5032UE-D, DS-D5032UN-A, DS-D5032UN-B,  
DS-D5032UN-D, DS-D5043FL-C, DS-D5043FL-D,  
DS-D5043FC-B, DS-D5043FC-C, DS-D5043FC-D,  
DS-D5043FE-A, DS-D5043FE-B, DS-D5043FE-C,  
DS-D5043FE-D, DS-D5043FN-A, DS-D5043FN-B,  
DS-D5043FN-D, DS-D5043UL-B, DS-D5043UL-C,  
DS-D5043UL-D, DS-D5043UC-B, DS-D5043UC-D,  
DS-D5043UE-A, DS-D5043UE-B, DS-D5043UE-C,  
DS-D5043UE-D, DS-D5043UN-A, DS-D5043UN-B,  
DS-D5043UN-C, DS-D5043UN-D, DS-D5049FL,

Serial Number : Engineering sample  
Remark : Refer to test report CN21GMW2 004 for details.



**Certification Body**

**Date:** 2023-04-20

**Hongyan Yu**



# Appendix No. 3.41



## TÜV Rheinland LGA Products GmbH Tillystraße 2, 90431 Nürnberg

**Attachment to Certificate No.:** Q 50582410 0001  
**Report No.:** CN21GMW2 004  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd.  
No. 555 Qianmo Road Binjiang District, Hangzhou  
310052 Zhejiang P.R. China

### Identification:

Type Designation: DS-D5050UN-C, DS-D5050UN-D, DS-D5055FL, DS-D5055FL-A, DS-D5055FN, DS-D5055FN-A, DS-D5055FN-B, DS-D5055FN-C, DS-D5055UN-A, DS-D5055UN-B, DS-D5055UN-C, DS-D5055UN-D, DS-D5065FL, DS-D5065FL-A, DS-D5065FL-B, DS-D5065FL-C, DS-D5065FL-D, DS-D5065FC, DS-D5065FC-A, DS-D5065FC-B, DS-D5065FC-C, DS-D5065FC-D, DS-D5065FE, DS-D5065FE-A, DS-D5065FE-B, DS-D5065FE-C, DS-D5065FE-D, DS-D5065FN, DS-D5065FN-A, DS-D5065FN-B, DS-D5065FN-C, DS-D5065FN-D, DS-D5065UC-D, DS-D5065UE-C, DS-D5065UE-D, DS-D5065UN-A, DS-D5065UN-B, DS-D5065UN-C, DS-D5065UN-D, DS-D50XXXX, DS-D2A461HR, DS-D2A551HR, DS-D5022FX-A, DS-D5165TS/P(B), DS-D5186TS/P(B),

Serial Number : Engineering sample

Remark : Refer to test report CN21GMW2 004 for details.



**Certification Body**

**Date:** 2023-04-20

Hongyan Yu



# Sedie



# 2016

## Scheda tecnica



Sicura



Supporto  
Lombare



Anti-  
Ribaltamento



impilabile



Ultra-  
Robusta



Ergonomia



Resistenza  
& Stabilità

GG

[www.sirianni.it](http://www.sirianni.it)

02/12/2016

# camillosiriani®



La sedia One Piece è realizzata in una unica struttura di puro polipropilene ad alto impatto caratterizzandola come la scelta migliore per molte scuole per la sua ultra robustezza e indistruttibilità.

Versatile, ergonomica, colorata, non ha bisogno di particolare manutenzione ed è facile da pulire. Si adatta ai diversi ambienti in cui potrebbe essere collocata.

Un bambino siede sei ore al giorno per un periodo di 11 anni o più e il design dello schienale di One Piece a forma di S garantisce una postura corretta.

Il Supporto lombare rende la seduta confortevole migliorando anche la concentrazione del bambino.

Testato e pienamente compatibile con gli Standard BS EN1729 Parti 1 & 2

Le misure 5 e 6 sono state sottoposte a ulteriori test come BS EN 1573: 2007 Test di livello 2 il test potenziato per un massimo di 25 .

Non ci sono spigoli vivi o componenti in metallo, che potrebbero causare ferite al bambino.

L'inclinazione della gamba posteriore della sedia ne impedisce il ribaltamento.

La presa sullo schienale facilita il sollevamento di One Piece che peraltro è anche molto leggera.

**Impilabile** fino a 12 unità.

Soddisfa le esigenze di diverse fasce di età e propone una scelta tra 5 altezze e diverse colorazioni.

**15 anni di garanzia**

## COLORI

Grandezze 1-4



Grandezze 5-6



# camillosiriani®

one piece

## Dimensioni:

ONE PIECE:

Gr. 1 - Età 1-2 mm 260/513h

Gr. 2 - Età 3-5 mm 310/563h

Gr. 3 - età 5-7 mm 350/600h

Gr. 4 - età 7-9 mm 380/690h

Gr. 5 - età 9-13 mm 425/799h

Gr. 6 - età 13+ mm 460/829h

## Capacità di carico:

Gr. 1 - Età 1-2 kg 97

Gr. 2 - Età 3-5 kg 97

Gr. 3 - età 5-7 kg 107

Gr. 4 - età 7-9 kg 107

Gr. 5 - età 9-13 kg 115

Gr. 6 - età 13+ kg 158

## Peso:

Gr. 1 - Età 1-2 kg 1,80

Gr. 2 - Età 3-5 kg 1,90

Gr. 3 - età 5-7 kg 2,85

Gr. 4 - età 7-9 kg 2,95

Gr. 5 - età 9-13 kg 4,20

Gr. 6 - età 13+ kg 4,40





Il marchio della gestione  
forestale responsabile  
FSC® A000532



The mark of  
responsible forestry  
FSC® A000532

**CERTIFICATO N. RINA-COC-000140**  
**CERTIFICATE No.**

SI CERTIFICA CHE LA CATENA DI CUSTODIA DI  
*IT IS HEREBY CERTIFIED THAT CHAIN OF CUSTODY OF*  
**CAMILLO SIRIANNI DI SIRIANNI ANGELO  
FRANCESCO S A S**

LOCALITA' SCAGLIONI, 30 88049 Soveria Mannelli (CZ) ITALIA

NELLE SEGUENTI UNITÀ OPERATIVE / *IN THE FOLLOWING OPERATIONAL UNITS*

LOCALITA' SCAGLIONI, 30 88049 Soveria Mannelli (CZ) ITALIA

È CONFORME ALLA NORMA / *IS IN COMPLIANCE WITH THE STANDARD*

**FSC®-COC**

PER I SEGUENTI PRODOTTI / *FOR THE FOLLOWING PRODUCTS*

Produzione di sedie e sgabelli, tavoli, mobili per strutture istituzionali, armadi FSC Mix (W12.6-W12.8-W12.9-W12.3) -  
Sistema del trasferimento

*Name of groups of products according to the FSC-STD-40-004a:*

W12.3 – Tables  
W12.6 – Chairs and stools  
W12.8 – Institutional casework  
W12.9 – Wardrobes

Il presente certificato deve rimanere proprietà del RINA e tutte le copie o riproduzioni devono essere restituite o distrutte se richiesto dal RINA

*This certificate shall remain the property of RINA and all copies or reproduction of this shall be returned or destroyed if requested by RINA*

Questo certificato di per sé non costituisce un'evidenza che un particolare prodotto fornito dal titolare del certificato sia certificato FSC (o Legno Controllato FSC).

I prodotti offerti, spediti o venduti dal titolare del certificato possono essere considerati coperti solo dallo scopo di questo certificato quando la dichiarazione FSC richiesta è chiaramente indicata nelle fatture e nei documenti di trasporto

*This certificate itself does not constitute evidence that a particular product supplied by the certificate holder is FSC-certified (or FSC-Controlled Wood). Products offered, shipped or sold by the certificate holder can only be considered covered by the scope of this certificate when the required FSC claim is clearly stated on invoices and shipping documents*

La validità del presente certificato è subordinata a sorveglianza periodica annuale / semestrale ed al riesame completo della catena di custodia con periodicità quinquennale.

*The validity of this certificate is dependent on an annual/six monthly audit and on a complete review, every five years, of the chain of custody*

L'uso e la validità del presente certificato sono soggetti al rispetto del documento RINA: Regolamento per la Certificazione della Catena di Custodia dei prodotti di origine forestale

*The use and validity of this certificate are subject to compliance with the RINA document: Rules for the Certification of Chain of Custody of forest products*

Andrea Alloisio

Certification Compliance &  
Technical Support, Director

**RINA Services S.p.A.**  
Via Corsica 12 - 16128 Genova Italy

Prima emissione <i>First Issue</i>	10.08.2016
Emissione corrente <i>Current issue</i>	10.08.2021
Data scadenza <i>Expiry date</i>	09.08.2026

La validità di questo certificato  
deve essere verificata sul sito  
<http://info.fsc.org>

*The validity of this certificate  
shall be verified on  
<http://info.fsc.org>*

Per l'elenco completo dei  
prodotti coperti dal  
certificato fare riferimento  
al database sul sito:  
<http://info.fsc.org>

*For the full list of product  
groups covered by the  
certificate refer to the  
database on the site:  
<http://info.fsc.org>*





CISQ is a member of



The International Certification Network

[www.iqnet-certification.com](http://www.iqnet-certification.com)

**CERTIFICATO N. EMS-3318/S**  
**CERTIFICATE No.**

SI CERTIFICA CHE IL SISTEMA DI GESTIONE AMBIENTALE DI  
*IT IS HEREBY CERTIFIED THAT THE ENVIRONMENTAL MANAGEMENT SYSTEM OF*

**CAMILLO SIRIANNI DI SIRIANNI ANGELO FRANCESCO**  
**S.A.S.**

LOCALITA' SCAGLIONI, 30 88049 Soveria Mannelli (CZ) ITALIA  
NELLE SEGUENTI UNITÀ OPERATIVE / *IN THE FOLLOWING OPERATIONAL UNITS*

LOCALITA' SCAGLIONI, 30 88049 Soveria Mannelli (CZ) ITALIA

È CONFORME ALLA NORMA / *IS IN COMPLIANCE WITH THE STANDARD*  
**ISO 14001:2015**

E AL REGOLAMENTO TECNICO ACCREDIA RT-09, APPLICABILE IN ITALIA  
PER I SEGUENTI CAMPI DI ATTIVITÀ / *FOR THE FOLLOWING FIELD(S) OF ACTIVITIES*

Per informazioni sulla validità  
del certificato, visitare il sito  
[www.rina.org](http://www.rina.org)

For information concerning  
validity of the certificate, you  
can visit the site  
[www.rina.org](http://www.rina.org)

IAF:23  
IAF:17

PROGETTAZIONE E PRODUZIONE E RIPARAZIONE DI ARREDI IN LEGNO E METALLO PER SCUOLE, UFFICI E SPAZI COLLETTIVI, MEDIANTE OPERAZIONE DI TAGLIO, INCOLLAGGIO, VERNICIATURA, SALDATURA, ASSEMBLAGGIO, IMBALLAGGIO, MONTAGGIO ED INSTALLAZIONE.

*DESIGN AND PRODUCTION AND REPAIR OF WOOD AND METAL FURNITURE FOR SCHOOLS, OFFICES AND COLLECTIVE AREAS BY CUTTING, GLUEING, PAINTING, WELDING, ASSEMBLY, PACKAGING AND INSTALLATION.*

L'uso e la validità del presente certificato sono soggetti al rispetto del documento RINA: Regolamento per la Certificazione di Sistemi di Gestione Ambientale

*The use and the validity of this certificate are subject to compliance with the RINA document: Rules for the Certification of Environmental Management Systems*

La validità del presente certificato è subordinata a sorveglianza periodica annuale / semestrale ed al riesame completo del sistema di gestione con periodicità triennale

*The validity of this certificate is dependent on an annual / six monthly audit and on a complete review, every three years, of the management system*

Prima emissione <i>First Issue</i>	<u>23.05.2011</u>	Data decisione di rinnovo <i>Renewal decision date</i>	<u>08.05.2023</u>
Data scadenza <i>Expiry Date</i>	<u>19.05.2026</u>	Data revisione <i>Revision date</i>	<u>08.05.2023</u>

Andrea Vasta

Vibo Valentia Management  
System Certification, Head



SGA N° 002 D

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC  
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

**RINA Services S.p.A.**  
Via Corsica 12 - 16128 Genova Italy



[www.cisq.com](http://www.cisq.com)

CISQ è la Federazione Italiana di Organismi di Certificazione dei sistemi di gestione aziendale  
*CISQ is the Italian Federation of management system Certification Bodies*

Il sottoscritto Angelo Francesco Sirianni, nato a Soveria Mannelli (Cz) il 24.09.1963 ed ivi residente in via S.Andrea n. 37, in qualità di legale rappresentante della CAMILLO SIRIANNI S.a.s., avente sede legale nel Comune di Soveria Mannelli (Cz), alla loc. Scaglioni n. 30, con codice fiscale e partita IVA n. 01932130790,

## DICHIARA

che i prodotti delle Linee

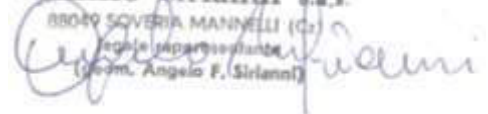
- I Series “Furnishing Collaboration”
  - Agorà
  - Tavoli Allievi
  - Sedie Allievi
  - Armadi
  - Complementi
- sono realizzati con materia prima e componenti che rispondono ai requisiti dettati dal D.M. 08/08/2022 sui C.A.M. (Criteri Ambientali minimi)
- che i test di verifica, in conformità alle Norme UNI EN di riferimento, sono stati effettuati da Laboratori autorizzati e accreditati Accredia;
- che i legni e i suoi derivati utilizzati per la realizzazione dei prodotti sono di origine FSC e che il sistema di gestione è stato certificato;
- che il sistema aziendale di gestione ambientale è stato certificato in conformità alla Norma UNI EN 14001.

Allegati: Certificato UNI EN 14001; Certificato FSC

Soveria Mannelli, 10/05/2023

Il Dichiarante  
Angelo Francesco Sirianni

camillo sirianni s.a.s.  
BRODO SOVERIA MANNELLI (Cz)  
legale rappresentante  
(n. 09m. Angelo F. Sirianni)





CISQ is a member of



The International Certification Network  
[www.iqnet-certification.com](http://www.iqnet-certification.com)

## CERTIFICATO N. EMS-3318/S CERTIFICATE No.

SI CERTIFICA CHE IL SISTEMA DI GESTIONE AMBIENTALE DI  
IT IS HEREBY CERTIFIED THAT THE ENVIRONMENTAL MANAGEMENT SYSTEM OF  
**CAMILLO SIRIANNI DI SIRIANNI ANGELO FRANCESCO  
S.A.S.**

LOCALITA' SCAGLIONI, 30 88049 Soveria Mannelli (CZ) ITALIA  
NELLE SEGUENTI UNITA' OPERATIVE / IN THE FOLLOWING OPERATIONAL UNITS

LOCALITA' SCAGLIONI, 30 88049 Soveria Mannelli (CZ) ITALIA

È CONFORME ALLA NORMA / IS IN COMPLIANCE WITH THE STANDARD  
**ISO 14001:2015**  
E AL REGOLAMENTO TECNICO ACCREDIA RT-09, APPLICABILE IN ITALIA  
PER I SEGUENTI CAMPI DI ATTIVITA' / FOR THE FOLLOWING FIELD(S) OF ACTIVITIES

Per informazioni sulla validità  
del certificato, visitare il sito  
[www.rina.org](http://www.rina.org)

For information concerning  
validity of the certificate, you  
can visit the site  
[www.rina.org](http://www.rina.org)

IAF-23  
IAF-17

PROGETTAZIONE E PRODUZIONE E RIPARAZIONE DI ARREDI IN LEGNO E METALLO PER SCUOLE, UFFICI E SPAZI  
COLLETTIVI, MEDIANTE OPERAZIONE DI TAGLIO, INCOLLAGGIO, VERNICIATURA, SALDATURA, ASSEMBLAGGIO,  
IMBALLAGGIO, MONTAGGIO ED INSTALLAZIONE.

DESIGN AND PRODUCTION AND REPAIR OF WOOD AND METAL FURNITURE FOR SCHOOLS, OFFICES AND COLLECTIVE  
AREAS BY CUTTING, GLUING, PAINTING, WELDING, ASSEMBLY, PACKAGING AND INSTALLATION.

L'uso e la validità del presente certificato sono soggetti al rispetto del documento RINA: Regolamento per la Certificazione di Sistemi di Gestione Ambientale  
The use and the validity of this certificate are subject to compliance with the RINA document: Rules for the Certification of Environmental Management Systems  
La validità del presente certificato è subordinata a sorveglianza periodica annuale / semestrale ed al riesame completo del sistema di gestione con periodicità triennale  
The validity of this certificate is dependent on an annual / six monthly audit and on a complete review, every three years, of the management system

Prima emissione First Issue	23.05.2011	Data decisione di rinnovo Renewal decision date	08.05.2023
Data scadenza Expiry Date	19.05.2025	Data revisione Revision date	08.05.2023

Andrea Vasta

Vibo Valentia Management  
System Certification, Head

RINA Services S.p.A.  
Via Corsica 12 - 16128 Genova Italy



SGA N° 002 D

member degli Accordi di Mutuo  
Riconoscimento IA, IAF e IAC.  
Signatory of IA, IAF and IAC  
Mutual Recognition Agreements



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Certificazione dei sistemi di gestione aziendale  
CISQ is the Italian Federation of  
management system Certification Bodies

Stampa: 05/04/2023 10:05



Il marchio della gestione  
forestale responsabile  
FSC® A000532



The mark of  
responsible forestry  
FSC® A000532

**CERTIFICATO N. RINA-COC-000140**  
**CERTIFICATE No.**

SI CERTIFICA CHE LA CATENA DI CUSTODIA DI  
*IT IS HEREBY CERTIFIED THAT CHAIN OF CUSTODY OF*  
**CAMILLO SIRIANNI DI SIRIANNI ANGELO  
FRANCESCO S & S**  
LOCALITA' SCAGLIONI, 30 88049 Soveria Mannelli (CZ) ITALIA

NELLE SEGUENTI UNITA OPERATIVE / *IN THE FOLLOWING OPERATIONAL UNITS*

LOCALITA' SCAGLIONI, 30 88049 Soveria Mannelli (CZ) ITALIA

È CONFORME ALLA NORMA / *IS IN COMPLIANCE WITH THE STANDARD*

**FSC®-COC**

PER I SEGUENTI PRODOTTI / *FOR THE FOLLOWING PRODUCTS*

Produzione di sedie e sgabelli, tavoli, mobili per strutture istituzionali, armadi FSC Mix (W12.6-W12.8-W12.9-W12.3) -  
Sistema del trasferimento

Name of groups of products according to the FSC-STD-40-004a:

W12.3 – Tables  
W12.6 – Chairs and stools  
W12.8 – Institutional casework  
W12.9 – Wardrobes

Il presente certificato deve rimanere proprietà del RINA e tutte le copie o riproduttori devono essere restituite o distrutte se richiesto dal RINA.  
*This certificate shall remain the property of RINA and all copies or reproduction of this shall be returned or destroyed if requested by RINA*

Questo certificato di per sé non costituisce un'evidenza che un particolare prodotto fornito dal titolare del certificato sia certificato FSC (o Legno Controllato FSC).  
*This certificate itself does not constitute evidence that a particular product supplied by the certificate holder is FSC-certified (or FSC-Controlled Wood). Products offered, shipped or sold by the certificate holder can only be considered covered by the scope of this certificate when the required FSC claim is clearly stated on invoices and shipping documents.*

La validità del presente certificato è subordinata a sorveglianze periodiche annuali (semestrali ed al) insieme completo della catena di custodia con periodicità quinquennale.  
*The validity of this certificate is dependent on an annual/semi-annual audit and on a complete review, every five years, of the chain of custody.*

L'uso e la validità del presente certificato sono soggetti al rispetto del documento RINA: Regolamento per la Certificazione della Catena di Custodia dei prodotti di origine forestale.  
*The use and validity of this certificate are subject to compliance with the RINA document: Rules for the Certification of Chain of Custody of forest products*

Prima emissione First issue	10.08.2016
Emissione corrente Current issue	10.08.2021
Data scadenza Expiry date	09.08.2026

Andrea Aloisio

Certification Compliance &  
Technical Support, Director

**RINA Services S.p.A.**  
Via Corsica 12 - 16128 Genova Italy

La validità di questo certificato  
deve essere verificata sul sito  
<http://info.fsc.org>

The validity of this certificate  
shall be verified on  
<http://info.fsc.org>

Per l'elenco completo dei  
prodotti coperti dal  
certificato fare riferimento  
al database sul sito:  
<http://info.fsc.org>

For the full list of product  
groups covered by the  
certificate refer to the  
database on the site:  
<http://info.fsc.org>

# *Tablet*



## PERFORMANCE

### Processor

Unisoc T610 (8C, 2x A75 @1.8GHz + 6x A55 @1.8GHz)

### Graphics

Integrated ARM Mali G52 3EE 2-Core™

### Chipset

Unisoc SoC Platform

### Memory

4GB Soldered LPDDR4x

### Storage

64GB (eMCP, eMMC 5.1)

### Expandable Memory

MicroSD Card (Up to 128GB, FAT32; 2TB, exFAT)

### Card Reader

MicroSD Card Slot

### Storage Support

- 64GB eMCP on systemboard (eMMC 5.1)
- MicroSD card, supports FAT32 file up to 128GB, exFAT file up to 2TB

### Camera

Front 5.0MP (RGB) / Rear 8.0MP (RGB)

### Microphone

Mono

### Speakers

Dual speakers, optimized with Dolby® Atmos®

### Sensors

- Accelerometer (G) sensor
- Ambient light sensor (ALS)
- Hall sensor
- Proximity (P) sensor

### Vibration Motor

No support

### Battery

Integrated 5000mAh (Min.) / 5100mAh (Typ.)

### Max Battery Life

Standby time: 4 wks

Video playback time: 10 hr

Web browsing time: 9 hr

Music playback time: 64 hr

### Charging Time

Over 3.5 hr to fully charged

### Power Adapter

5V / 2.0A

## DESIGN

### Display

10.1" WUXGA (1920x1200) IPS 320nits, Touch, 100% sRGB

### Touchscreen

10-point Multi-touch

### Case Material

PC + ABS, Metal

### Dimensions (WxDxH)

239.84 x 158.62 x 8.5 mm (9.44 x 6.24 x 0.33 inches)

### Weight

Around 460 g (1.01 lbs)

### Case Color

Storm Grey

## SOFTWARE

### Operating System

Android™ 11 or later

## CONNECTIVITY

### WLAN + Bluetooth®

11a/b/g/n/ac, 1x1 + BT5.0

### WWAN

None

### VoiceCall

No

### Standard Ports

- 1x USB-C® 2.0 (support data transfer and Power Delivery)
- 1x Headphone / microphone combo jack (3.5mm)

### Optional Ports (configured)

1x microSD card slot (WLAN model)

## SERVICE

### Base Warranty

2-year, Depot with 1-year Battery

## ACCESSORIES

### Bundled Accessories

None

## CERTIFICATIONS

### Green Certifications

- ENERGY STAR® 8.0
- ErP Lot 3
- RoHS compliant

### Other Certifications

TÜV Rheinland® Low Blue Light (Software Solution)

## MODEL

Product : TB328FU

TopSeller : No

Announce Date : 2022-01-18

EAN / UPC / JAN : 196378578408



· Lenovo reserves the right to change specifications or other product information without notice.

· Product image on this page is a sample, it may not match the real color of this model

· Battery life is an estimated maximum. Actual battery life may vary based on many factors, including screen brightness, active applications, features, power management settings, battery age and conditioning, and other customer preferences

## Premium Care - Advanced Support from Real People. Real Fast.



### REAL PERSON

Choose how you want to reach us – through phone, chat, or email – our expert technicians will take care of your device issues.



### REAL FAST

Highly trained technicians will provide you real-time solutions, whatever the issue, on your first contact. If the issue can't be solved remotely, our team will schedule a repair via depot / carry-in support to resolve your issue.



### HASSLE FREE

'Getting started' and 'how-to' assistance for hardware and software. Easy solutions that are simple to reach – that's how Premium Care delivers you the ideal support experience.

## Accidental Damage Protection One - Protection for your Tablet from the unexpected.

Avoid the hassles of unexpected damage & repair costs. With coverage for drops, spills, electric surges, and broken LCD screens, accidental damage protection makes it easy to repair to your Tablets, permitting a single repair during the coverage period.

## Base Warranty - Included with the system you purchase with default 1-year coverage window.

## Lenovo Warranty Extensions & Upgrades (up to 3 years duration)

- Gain complete peace of mind by extending your base warranty to up to 3 years and minimize unexpected repair costs.

- Pick up & return courier / Depot support
- Replaceable unit service\*

\*Applicable in some regions only. Please check with your local services team for more details.

Lenovo may not offer the products, services or features discussed in this document in all regions. Lenovo may withdraw an offering at any time. Consult your local representative for information on offerings available in your area. Lenovo reserves the right to change specifications or other product information without notice. Lenovo is not responsible for photographic or typographical errors. Lenovo provides this publication "as is" without warranty of any kind, either express or implied, including the implied warranties of merchantability or fitness for a particular purpose.

## Recommended Accessories



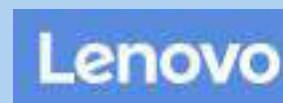
### Lenovo Folio Case for Tab M10 3rd Gen

ZG38C03900

This folio case is designed to protect your tablet with modern material finish and brimless style. The folio case comes with dual stand modes, allowing you to watch rich videos in convenient and comfortable positions.




For a full list of accessories and services, please visit:  
<https://smartfind.Lenovo.com>



**PSREF**  
Product Specifications  
Reference


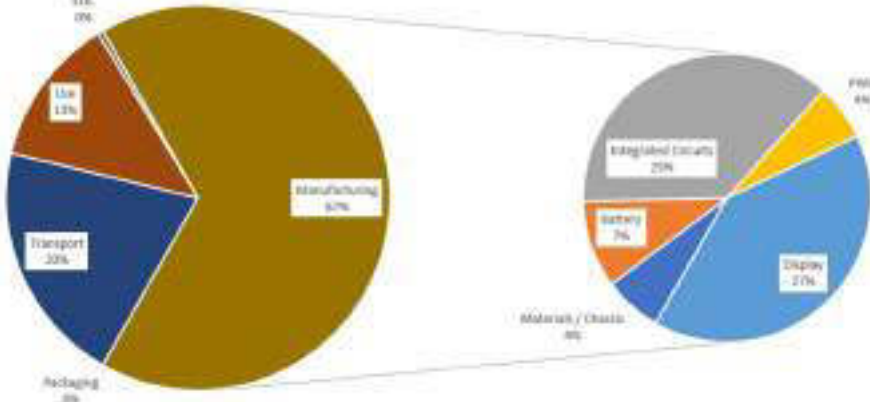
# Lenovo Product Carbon Footprint (PCF) Information Sheet

## PC/Notebook/Monitor/Tablet

Commercial Name	Lenovo Tab M10 Plus (3rd Gen)	
Model Number	ZAAJ,ZAAK, ZAAM, ZAAS, ZAAH, ZAAT	
Issue Date	Mar 11,2022	

### Product Environmental Attributes

(a) Product Carbon Footprint Value:	277 kg of CO <sub>2</sub> e (see Note 1 below)
(b) Product Picture:	(c) Life Cycle Detail by Component & Life Stage (Pie Chart):

	
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**Note 1:**

All estimates of carbon footprint are uncertain. Lenovo reports the 95<sup>th</sup> percentile of the carbon footprint estimate to reflect that uncertainty. For this product, that estimate has a mean of 112 kg of CO<sub>2</sub>e and standard deviation of 28 kg of CO<sub>2</sub>e. For a quantity that follows a normal distribution, the 95th percentile value is equal to the mean plus the standard deviation multiplied by 1.64. Other organizations might report this value as 112 +/- 28 kg of CO<sub>2</sub>e.

This PCF was generated using the Product Attribute to Impact Algorithm model, Version 1.3.1, Date: Dec 2, 2021 (Product Type: Tablet), © Massachusetts Institute of Technology's Materials Systems Laboratory, August 2012. Please refer to the Intended Uses and Limitations of the PAIA Model, © Massachusetts Institute of Technology's Materials Systems Laboratory, August 2012 for further details. [Link to Document](#)

This calculation was based upon a Lenovo Tab M10 Plus Gen 3 with the assumptions and configuration described in the calculation assumptions in the next page.

This pie chart provides the percent contribution of the mean value for each element of the analysis for the full life cycle CO<sub>2</sub>e impacts of the product. Individual elements displaying 0% are less than 0.5%.

# Lenovo Product Carbon Footprint (PCF) Information Sheet



Assumption Table					
Category	Element	Unit	Input	Mean	COV
Product Specifics	Product Weight	kg	Input	0.465	Primary Data
	Form Factor	no unit			
	Screen Size	inches	10.61		
	Product Lifetime	years	Input	3	Low COV
Location	Assembly Location	no unit	CN		
	Use Location	no unit	WW		
Transportation from Assembly to Customer	To country of use: by air	fraction	0.25		Low COV
	To country of use: by ship	fraction	0.75		Low COV
	To country of use: by rail	fraction	0.0		
	To country of use: by truck	fraction	0		
	In country of use: by air	fraction	0.1		Low COV
	In country of use: by ship	fraction	0		
	In country of use: by rail	fraction	0.2		Low COV
	In country of use: by truck	fraction	0.7		Low COV
End of Life	Fraction Recycled (remainder to landfill)	fraction	0.75		
	Fraction Shredded Recycling (remainder to manual)	fraction	0.65		

The PCF value is calculated using the specific attributes above for assembly, use and transportation mode. If you need any other country specific information, please contact [environment@lenovo.com](mailto:environment@lenovo.com).

**Notes:**

Life cycle phases included in the streamlined Product Attribute to Impact Algorithm (PAIA) Life Cycle Analysis (LCA) can be grouped into four categories which include Manufacture, Transport, Use, and End of Life. Below is a brief description of each phase.

Manufacture: This life cycle phase captures emissions generated during the extraction, production, and transport of raw materials, the manufacture of components and subassemblies (including the product packaging) and product assembly.

Transport: Emissions included in the transport phase include all those generated during the air, ocean or land transport of finished or semi-finished Lenovo products between Lenovo facilities and from Lenovo facilities to customers.

Use: In use energy consumption is calculated in accordance with the U.S. Environmental Protection Agency’s Energy Star® Typical Energy Consumption (TEC) methodology. Calculated energy consumption is then used in combination with average emissions factors for the designated country of use to calculate emissions.

End of Life: It is assumed that a designated portion of the product (see table above) is recycled at the end of the use period determined in the TEC methodology. It is also assumed that the balance of the product waste materials is disposed of by landfill. Emissions generated during the mechanical destruction, separation and transport of end of life materials are included in the calculation.

Product scope of this sheet includes desktop computer, integrated desktop computer, notebook computer, monitor and tablet. This document is only valid in connection with “THE ECO DECLARATION” of the specific product.

# THE ECO DECLARATION



ECMA/TC38-TG3/2015/026  
(Rev. 1 – 15 April 2015)

## Annex B2 - Product environmental attributes Notebooks and Tablets

The declaration may be published only when all rows and/or fields marked with \* are filled-in (n.a. for not applicable).  
Additional information regarding each item may be found under P15.

Brand *	<a href="#">Lenovo</a>	
Company name *	<a href="#">Lenovo</a>	
Contact information * e-mail address	<a href="#">Lenovo Global Environmental Affairs</a> <a href="#">Alvin L Carter</a> <a href="mailto:alcarter@lenovo.com">alcarter@lenovo.com</a>	
Internet site *	<a href="https://www.lenovo.com/us/en/sustainability-resources/">https://www.lenovo.com/us/en/sustainability-resources/</a>	
Additional information	<a href="http://www.lenovo.com/ecodeclaration">The latest version of this document can be found at: http://www.lenovo.com/ecodeclaration</a>	


The company declares (based on product specification or test results based obtained from sample testing), that the product conforms to the statements given in this declaration.	
Type of product *	<a href="#">Portable Tablet Computer</a>
Commercial name *	<a href="#">Lenovo Tab M10 Plus (3rd Gen)</a>
Model number *	<a href="#">ZAAJ,ZAAK,ZAAM,ZAAS,ZAAN,ZAAT</a>
Issue date *	<a href="#">2022.3.11</a>
Intended market *	<input checked="" type="checkbox"/> Global <input type="checkbox"/> Europe <input type="checkbox"/> Asia, Pacific & Japan <input type="checkbox"/> Americas <input type="checkbox"/> Other
Additional information	

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.


### About Annex B2

Annex B2 reflects Product environmental attributes relevant for Computers and Computer Monitors. The following items from the ECMA-370 Main body are not shown in the template:  
P4.1 – P4.3 Consumable materials  
P9.1 TEC and Print speed  
P10.2 - P10.3 Chemical emissions from printing products  
P11.1 - P11.3 Consumable materials for printing products.



<b>Model number *</b>	ZAAJ,ZAAK,ZAAM,ZAAS,ZAAN,ZAAT	
<b>Issue date *</b>	2022.3.11	
<b>Product environmental attributes - Legal requirements</b>		<b>Requirement met</b>
Item		Yes No n.a.
<b>P1</b>	<b>Hazardous substances and preparations</b>	
P1.1*	Products do comply with current European RoHS Directive. (See legal reference and NOTE B1)	<input checked="" type="checkbox"/> <input type="checkbox"/>
P1.2*	Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.	<input checked="" type="checkbox"/> <input type="checkbox"/>
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorocarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.	<input checked="" type="checkbox"/> <input type="checkbox"/>
P1.4*	Products do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated terphenyl (PCT) in preparations (see legal reference).	<input checked="" type="checkbox"/> <input type="checkbox"/>
P1.5*	Products do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).	<input checked="" type="checkbox"/> <input type="checkbox"/>
P1.6*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 µg/cm <sup>2</sup> /week (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:2011-5.	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
P1.7*	REACH Article 33 information about substances in articles is available at (add URL or mail contact): <a href="https://www.lenovo.com/us/en/Lenovo-REACH-SVHC-Disclosure">https://www.lenovo.com/us/en/Lenovo-REACH-SVHC-Disclosure</a>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<b>P2</b>	<b>Batteries</b>	
P2.1*	If the product contains a battery or an accumulator, the battery/accumulator is labeled with the disposal symbol. Information on proper disposal is provided in user manual. (See legal reference)	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
P2.2*	Batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See legal reference)	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
P2.3*	Batteries and accumulators are readily removable. (See legal reference)	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<b>P3</b>	<b>Conformity verification &amp; Eco design (ErP)</b>	
P3.1*	The product is CE-marked to show conformance with applicable legal requirements (see legal reference). The Declaration of Conformity can be requested at (add link or e-mail address): <a href="https://www.lenovo.com/us/en/compliance/eu-doc-for-EU">https://www.lenovo.com/us/en/compliance/eu-doc for EU;</a> <a href="https://www.lenovo.com/us/en/compliance/uk-doc-for-UK">https://www.lenovo.com/us/en/compliance/uk-doc for UK</a>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
P3.2*	The product complies with the Eco design requirements for energy-related products, (see legal reference). Required information is; <input checked="" type="checkbox"/> given in item P15 or added to this document, <input checked="" type="checkbox"/> available at (add URL): <a href="https://www.lenovo.com/us/en/compliance/eco-declaration">https://www.lenovo.com/us/en/compliance/eco-declaration</a>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<b>P5</b>	<b>Product packaging</b>	
P5.1*	Packaging and packaging components do not contain more than 0,01% lead, mercury, cadmium and hexavalent chromium by weight of these together.	<input checked="" type="checkbox"/> <input type="checkbox"/>
P5.2*	The packaging materials are marked with abbreviations and numbers indicating the nature of the material(s) used (see legal reference).	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference). Comment: Legal reference has no maximum concentration values.	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<b>P6</b>	<b>Treatment information</b>	
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

NOTE B1 Restriction applies to the homogeneous material, unless other specified and expressed in weight %. Stating "Yes" means that the product is compliant with the mandatory requirements.

Model number *	ZAAJ,ZAAK,ZAAM,ZAAS,ZAAN,ZAAT	Logo			
Issue date *	2022.3.11				
<b>Product environmental attributes - Market requirements (See General NOTE GN below)</b>					
<b>- Environmental conscious design</b>					
			<b>Requirement met</b>		
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.		Yes	No	n.a.
<b>P7 Design, Disassembly, recycling</b>					
P7.1*	Parts that have to be treated separately are easily separable		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.2*	Plastic materials in covers/housing have no surface coating.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.3*	Plastic parts > 100 g consist of one material or of easily separable materials.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P7.4*	Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Product lifetime</b>					
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.8*	Upgrading can be done using commonly available tools		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.9	Spare parts are available after end of production for: <b>1</b> years				<input type="checkbox"/>
P7.10	Service is available after end of production for: <b>1</b> years				<input type="checkbox"/>
<b>Material and substance requirements</b>					
P7.11*	Product cover/housing material type (e.g. plastics, metal, aluminum): Material type: <b>PC+20%GF</b> Material type: <b>PC</b> Material type: <b>Copper-Nickel</b>				
P7.12	Insulation materials of external electrical cables are PVC free.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.13	Insulation materials of internal electrical cables are PVC free.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.14	External plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) bromine and 0,1% weight (1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame retardants, and polyvinyl chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine in parts containing more than 25% post-consumer recycled content.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.15	Printed circuit boards, PCBs (without components) are low halogen: all <input checked="" type="checkbox"/> PCBs > 25 g <input type="checkbox"/> are low halogen as defined in IEC 61249-2-21. (See 1NOTE B2)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.16	Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4: Marking: <b>FR(40)</b>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.17	<u>Alt. 1:</u> Chemical specifications of flame retardants in printed circuit boards > 25 g (without components): <input type="checkbox"/> TBBPA (additive), <input type="checkbox"/> TBBPA (reactive) (See NOTE B3), <input checked="" type="checkbox"/> Other: <b>DOPO</b> , CAS #: <b>35948-25-5</b> <u>Alt. 2:</u> Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g according ISO 1043-4:		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.18	<u>Alt. 1:</u> Flame retarded plastic parts > 25 g contain the following flame retardant substances/preparations in concentrations above 0,1%: 1. Chemical name: <b>BDP</b> , CAS #: <b>181028-79-5</b> (See NOTE B4) 2. Chemical name: , CAS #: " 3. Chemical name: , CAS #: " <u>Alt. 2:</u> Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4: <b>FR40</b>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.19	In plastic parts > 25 g, flame retardant substances/preparations above 0,1% are used which have been assigned the following Risk phrases; <b>P273 Avoid release to the environment.</b> and Hazard statements: <b>H411 Toxic to aquatic life with long lasting effects</b> The source(s) for these classifications is/are found at (add URL(s)): <a href="https://www.lookchem.com/sds181028-79-5.html">https://www.lookchem.com/sds181028-79-5.html</a> , (See note B5)		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.20*	Postconsumer recycled plastic material content is used in the product (See Note B6):  If YES; at least one of the two alternatives below shall be answered; a) Of total plastic parts' weight > 25 g, the postconsumer recycled plastic material content (calculated as a percentage of total plastic by weight) is <b>2.4%</b> . or b) The weight of recycled material is <b>1.78</b> g.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>


GENERAL NOTE Standard references should direct to the latest version of a standard. If an older version of a standard is used, section P15 shall be used for explanation.

NOTE B2 IEC 61249-2-21 defines maximum limits of 900 ppm for each of the substances chlorine and bromine and a maximum limit of 1500ppm of these substances combined. The standard does not address fluorine, iodine and astatine which are included in the group of halogens.

NOTE B3 and B4 A Guidance document on Chemical substances is available; see <http://www.ecma-international.org/publications/standards/Ecma-370.htm>

NOTE B5 If a certain substance has been assigned a certain risk phrases / hazard statement in the referenced source, this does not necessarily mean the substance has been tested for all of the hazards referred to by a certain customer.

NOTE B6 Applies to a product containing plastic parts whose combined weight exceeds 100 g with the exception of printed circuit boards, cables, connectors and electronic components and bio-based plastic material.

Model number *	ZAAJ,ZAAK,ZAAM,ZAAS,ZAAN,ZAAT	Logo	
Issue date *	2022.3.11		


Product environmental attributes - Market requirements (continued)		Requirement met		
Item		Yes	No	n.a.

Material and substance requirements (continued)				
P7.21*	Biobased plastic material content is used in the product (See NOTE B7): If YES; at least one of the two alternatives below shall be answered; a) Of total plastic parts' weight > 25 g, the biobased plastic material content (calculated as a percentage of total plastic by weight) is %. or b) The weight of the biobased plastic material is g.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.22*	Light sources are free from mercury, i.e. less than 0,1 mg/lamp. If mercury is used specify: Number of lamps: and maximum mercury content per lamp: mg	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P8 Batteries				
P8.1*	Battery chemical composition: <i>Li-ion Polymer</i>			<input type="checkbox"/>
P9 Energy consumption (See NOTE B8)				
P9.1 For the product the following power levels or energy consumptions are reported:				
Energy mode *	Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference/Standard for energy modes and test method * <input type="checkbox"/>
<b>Peak (On-max)</b>	9.25 W	9.25 W	9.4 W	Full load
<b>Category ---2</b>				
Short Idle State - WOL Enabled	2.36 W	2.33 W	2.39 W	ENERGY STAR Computers V8.0 (P <sub>idle</sub> )
Long Idle State - WOL Enabled	0.17 W	0.18 W	0.20 W	ENERGY STAR Computers V8.0 (P <sub>idle</sub> )
Sleep (S3) - WOL Disabled	0.17 W	0.18 W	0.20 W	ENERGY STAR Computers V8.0
Off (S5) - WOL Disabled	0.19 W	0.20 W	0.24 W	ENERGY STAR Computers V8.0
EPS No-load (External power supply / charger plugged in the wall outlet but disconnected from the product.)	0.026 W	0.039 W	0.051 W	
ETEC * Annual Energy Consumption	7.24 kWh/yr	7.26 kWh/yr	7.59 kWh/yr	$E_{TEC} = (8760/1000) \times (P_{off} \times 0.25 + P_{sleep} \times 0.35 + P_{long\_idle} \times 0.10 + P_{short\_idle} \times 0.30)$ <input type="checkbox"/>
<i>P<sub>off</sub>: Off Mode(S5) - WOL Enabled; P<sub>sleep</sub>: Sleep Mode(S3) - WOL Enabled; P<sub>idle</sub>: Idle State - WOL Enabled</i>				
External Power Supply Efficiency Level (International Efficiency Marking Protocol) * : VI				<input type="checkbox"/>
Display resolution * : 2.4 megapixels				<input type="checkbox"/>
Default time to enter energy save mode: 0.5 minutes				<input type="checkbox"/>
P9.2*	Information about the energy save function is provided with the product.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P9.3	Energy efficiency class (monitors only):			<input checked="" type="checkbox"/>
P10 Emissions				
Noise emission – Declared according to ISO 9296 (See NOTE B9)				
P10.1	Mode	Mode description	Statistical upper limit A-weighted sound power level, L <sub>WA,c</sub> (B)	
	Idle	*	*	<input checked="" type="checkbox"/>
	Operation	*	*	<input checked="" type="checkbox"/>
	Other mode	Declared A-weighted sound pressure level (dB) L <sub>pAm</sub>		(operator position desktop – idle)
	Other mode	Declared A-weighted sound pressure level (dB) L <sub>pAm</sub>		(operator position desktop – operating)
Measured according to: <input type="checkbox"/> ISO 7779 <input type="checkbox"/> ECMA-74 <input type="checkbox"/> Other (only if not covered by ECMA-74)				

NOTE B7 The following is to be excluded from the calculation of percentage: printed circuit boards, labels, cables, connectors and electronic components and postconsumer recycled plastic

NOTE B8 A Guidance document on Energy Efficiency is available;  
see <http://www.ecma-international.org/publications/standards/Ecma-370.htm>

NOTE B9 A Guidance document on Acoustic Noise is available;  
see <http://www.ecma-international.org/publications/standards/Ecma-370.htm>

<b>Model number *</b>	ZAAJ,ZAAK,ZAAM,ZAAS,ZAAN,ZAAT	<b>Logo</b>			
<b>Issue date *</b>	2022.3.11				
<b>Product environmental attributes - Market requirements (continued)</b>		<b>Requirement met</b>			
Item		Yes	No	n.a.	
<b>Electromagnetic emissions</b>					
P10.4	Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program(s):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>P12 Ergonomics for computing products</b>					
P12.1*	The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
P12.2*	The physical input device meets the requirements of ISO 9995 and ISO 9241-410.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>P13 Packaging and documentation</b>					
P13.1*	Product packaging material type(s): <b>cardboard</b> weight (kg): <b>0.207</b> Product packaging material type(s): <b>paper(manual)</b> weight (kg): <b>0.089</b> Product packaging material type(s): <b>Paper cushion</b> weight (kg): <b>0.0227</b>				
P13.2*	Product plastic primary packaging is free from PVC.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
P13.3*	For product primary corrugated fiberboard packaging, specify the contained percentage of minimum post-consumer recovered fiber content: %			<input checked="" type="checkbox"/>	
P13.4*	Specify media for user and product documentation (tick box): <input checked="" type="checkbox"/> Electronic, <input checked="" type="checkbox"/> Paper, <input type="checkbox"/> Other				<input type="checkbox"/>
P13.5	(Please only complete this item if paper documentation used) User and product documentation on paper media is chlorine-free: If Yes, please specify:  Totally chlorine-free Elemental chlorine-free Processed chlorine-free	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
<b>P14 Voluntary programs</b>					
P14.1	The product meets the requirements of the following voluntary program(s):  ENERGY STAR® Criteria version: <b>8.0</b> Date: <b>2020-4</b> Product category: <b>2</b> Eco-label: Criteria version: Date: Product category: Eco-label: Criteria version: Date: Product category:				
<b>P15 Additional information (See NOTE B10)</b>					
P9	<b>Energy consumption of specific configuration may vary; description of the tested product configuration:</b> <i>NOTE: Supplier makes no representations, guarantees, assurances or warranties whether express or implied, regarding the information contained in this document. All information provided by supplier in this document is provided based on supplier's knowledge available at the time of completion, and supplier shall have no obligation to update such information. The information provided here is approximate and provided for informational purposes only. See a Lenovo Account Representative for more information.</i>				
P9	<b>See Energy Star Qualified Notebooks &amp; Tablet Computers for the latest information:</b> <a href="http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&amp;pgw_code=CO">http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&amp;pgw_code=CO</a>				

NOTE B10 Additional lines may be inserted to declare further items, by positioning the cursor at the far right of the row and hitting the <Enter> key.

## Legal references Europe Annex B2

Reference	Declaration item
Directive 2011/65/EU (RoHS Directive) * * Specific exemptions apply for certain products and applications.	P1.1
Regulation (EC) 1907/2006(REACH, Annex XVII)	P1.2, P1.4, P1.6, P1.7
Regulation (EC) 2037/2000, 2038/2000, 2039/2000 (Marketing and use of Ozone layer depleting substances)	P1.3, P5.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
Directive 2013/56/EC (Battery and accumulators Directive) * * These provisions shall not apply where, for safety, performance, medical or data integrity reasons, continuity of power supply is necessary and requires a permanent connection between the appliance and the battery or accumulator.	P2.1, P2.2, P2.3, P8.1
Directive 2006/95/EC (Low Voltage Directive)	P3.1
Directive 2004/108/EC (EMC Directive)	P3.1
Directive 1999/5/EC (R&TTE Directive)	P3.1
Regulation (EC) 801/2013 amending Regulation (EC) No 1275/2008 with regard to ecodesign requirements for standby, off mode electric power consumption of electrical and electronic household and office equipment, and amending Regulation (EC) No 642/2009 with regard to ecodesign requirements for televisions	P3.1, P3.2
Regulation (EC) No 1272/2008 (CLP Regulation)	P7.19
Directive 2004/12/EC ( Packaging Directive)	P5.1
Decision 97/129/EC (Secondary packaging legislation)	P5.2
Directive 2012/19/EU (WEEE directive)	P6.1



# Lenovo ErP Lot3 Information Sheet

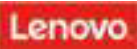
## - PC / Notebook -

As required by COMMISSION REGULATION (EU) No 617/2013 of 26 June 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for computers and computer servers (ErP Lot3).

### Products scope of this sheet:

Desktop computer, integrated desktop computer, and notebook computer

This document is only valid in connection with the IT Eco Declaration of the specific Product.

<b>Commercial name</b>	<i>Lenovo Tab M10 Plus (3rd Gen)</i>	<b>Logo</b> 
<b>Model Number</b>	<i>ZAAJ,ZAAK,ZAAM,ZAAS,ZAAN,ZAAT</i>	
<b>Issue Date</b>	<i>2022.3.11</i>	
<b>Additional information</b>		

P7.1.1 Product environmental attributes						
(d)	Year of manufacture:					<i>2022</i>
(e)	<b>Etec value (kWh)</b> per ErP Lot 3 Category and capability adjustments applied when <b>all discrete graphics cards (dGfx) are disabled</b> and if the system is tested with switchable graphics mode with UMA driving the display.					
(f)	<b>Etec value (kWh)</b> per ErP Lot 3 Category and capability adjustments applied when <b>all discrete graphics cards (dGfx) are enable</b>					
		<b>Category A</b> (according to ErP Lot 3)	<b>Category B</b> (according to ErP Lot 3)	<b>Category C</b> (according to ErP Lot 3)	<b>Category D</b> (according to ErP Lot 3)	
capability adjustments applied during testing	Memory over base [GB]	<i>6</i>				
	Additional internal storage	<i>No</i> (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)
	Discrete television tuner	<i>No</i> (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)
	Discrete Audio Card	<i>No</i> (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)
	Discrete graphics Card(s) [number / #]	<i>No</i> #: (Yes / No)	(Yes / No) #:	(Yes / No) #:	(Yes / No) #:	(Yes / No) #:
	Category of discrete graphics Card(s)	<i>No</i>				
Test results	<b>Etec Value (kWh) - dGfx disabled</b> all discrete graphics cards (dGfx) are <b>disabled</b> / UMA is active for switchable graphics/ product has no graphics cards (dGfx)	<i>7.48</i>				
	<b>Etec Value (kWh) - dGfx enabled</b> all discrete graphics cards (dGfx) are <b>enabled</b>					
(g)	Idle state power demand (Watts);					<i>2.484</i>
(h)	Sleep mode power demand (Watts);					<i>0.3048</i>
(i)	Sleep mode with WOL enabled power demand (Watts) (where enabled);					
(j)	Off mode power demand (Watts);					<i>0.1224</i>
(k)	Off mode with WOL enabled power demand (Watts) (where enabled);					
(l)	Internal power supply efficiency at 10 %, 20 %, 50 % and 100 % of rated output power (if applicable):					
	10%	20%	50%	100%	Average	
(m)	External power supply efficiency (if applicable)*:					
	Average active efficiency: <i>81.93%</i>					
	*internal note: show values for all available external power supplies					
(o)	Minimum number of loading cycles that the batteries can withstand (applies only to notebook computers):					<i>800cls , ≥70% of capacity</i>
(p-1)	Measurement methodology used to determine information mentioned in points (l) – internal PSU efficiency:					<i>NA</i>
(p-2)	Measurement methodology used to determine information mentioned in points (m) – external PSU efficiency:					<i>Measuring the Energy Consumption of External Power Supplies, Appendix Z to 10 CFR Part 430.</i>

(p-3)	Measurement methodology used to determine information mentioned in points (o) – loading cycles batteries: <b>0.5C Charge/Discharge</b>
(p-4)	Measurement methodology used to determine information mentioned in maximum, idle, sleep, off mode power as defined in Point P9.1 in the Product IT Eco Declaration: <b>ENERGY STAR Final Test Method for Computers, Rev. October 2019</b>
(q)	Sequence of steps for achieving a stable condition with respect to power demand: <b>ENERGY STAR Final Test Method for Computers, Rev. October 2019</b>
(r)	Description of how sleep and/or off mode was selected or programmed: <b>refer to power management, sleep mode: ACPI system level G1/S3 (suspend to RAM) state; off mode: ACPI system level G2/S5 ('soft off) state</b>
(s)	Sequence of events required to reach the mode where the equipment automatically changes to sleep and/or off mode: <b>refer to power management, 0.5mins automatically reaches sleep mode</b>
(t)	<b>Duration of idle state condition before the computer automatically reaches sleep mode</b> , or another condition which does not exceed the applicable power demand requirements for sleep mode (in minutes): <b>0.5</b>
(u)	<b>Length of time after a period of user inactivity in which the computer automatically reaches a power mode that has a lower power</b> demand requirement than sleep mode (in minutes): <b>NA</b>
(v)	<b>Length of time before the display sleep mode is set to activate</b> after user inactivity (in minutes): <b>1</b>
(w)	Information on the energy-saving potential of power management functionality: <b>refer to user manual</b>
(x)	User information on how to enable the power management functionality: <b>refer to user manual</b>
(z)	Test parameters for measurements: — test voltage in V and frequency in Hz, — total harmonic distortion of the electricity supply system, — information and documentation on the instrumentation, set-up and circuits used for electrical testing: <b>230V50HZ-2%-Edition 2.0, 2011-01, Section 4, IEC62301</b>

**Additional Notebook Battery Information:**

	Battery[ies] <b>not</b> user replaceable The battery[ies] in this product cannot be easily replaced by users themselves. <sup>1)</sup>	Battery[ies] user replaceable	n/a
Internal/built-in Battery	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
External/detachable Battery	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bios Backup Battery	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

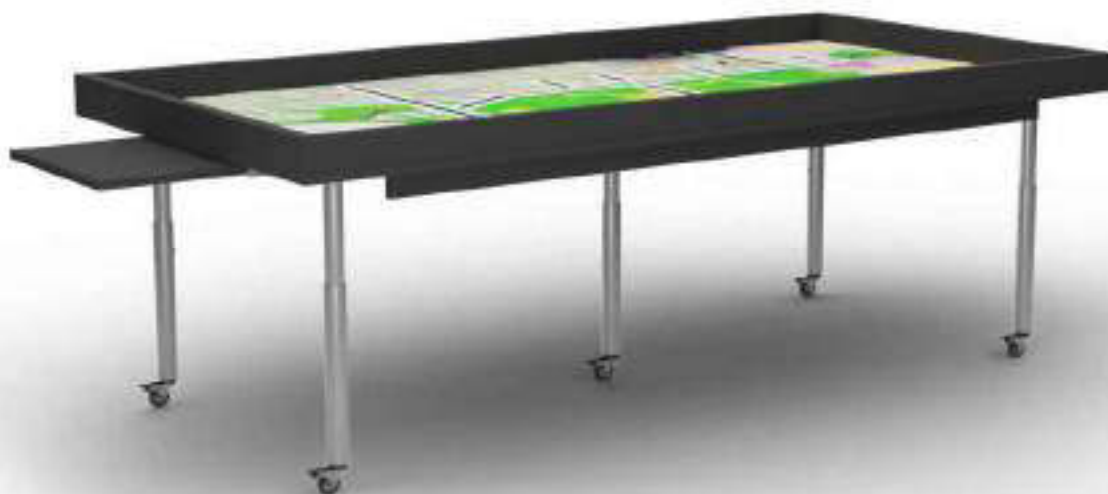
**Additional information**

1)

The battery[ies] in this product cannot be easily replaced by users themselves.  
 Акумуляторната[ите] батерия[и] в този продукт не може да се замени[ят] лесно от самите потребители.  
 Las baterías de este producto no pueden ser sustituidas fácilmente por los propios usuarios.  
 Výměnu baterie/baterií v tomto výrobku by neměli provádět sami uživatelé.  
 Brugeren kan ikke uden videre udskifte batteriet/batterierne i dette produkt.  
 Der Akku/die Akkus dieses Produkts kann/können nicht ohne weiteres vom Benutzer selbst ausgetauscht werden.  
 Kasutajad ei saa selle toote akut/akusid ise hõlpsasti asendada.  
 Η μπαταρία[-ες] στο προϊόν αυτό δεν μπορούν να αντικατασταθούν εύκολα από τους ίδιους τους χρήστες  
 La/les batterie(s) présente(s) dans ce produit ne peuvent être facilement remplacée(s) par les utilisateurs eux-mêmes.  
 Korisnik ne može lako zamijeniti Bateriju sam u ovom proizvodu.  
 La batteria/le batterie in questo prodotto non può/possono essere facilmente sostituita/e dall'utente.  
 Lietotāji paši nevar nomainīt šā ražojuma akumulatoru(-us).  
 Šio gaminio baterijos [baterijų] pats vartotojas negali lengvai pakeisti.  
 A termék akkumulátorát/akkumulátorait a felhasználó nem tudja egyedül egyszerűen kicserélni.  
 Il-batterija/batteriji f'dan il-prodott ma tistax/jistghux tiġi/jiġu sostitwita/i mill-utenti stess.  
 Batteriet [ene] i dette produktet kan ikke lett erstattes av brukerne selv.  
 De batterij(en) in dit product is (zijn) door de gebruiker niet gemakkelijk vervangbaar.  
 Użytkownik nie może sam w łatwy sposób wymienić baterii w tym produkcie.  
 A ou as baterias deste produto não podem ser facilmente substituídas pelos próprios utilizadores.  
 Bateria (bateriile) din acest produs nu poate (pot) fi ușor înlocuită (înlocuite) de utilizatorii înșiși.  
 Batériu(-ie) v tomto výrobku nemôže vymieňať používateľ.  
 Baterij/baterije v tem izdelku uporabniki sami ne morejo zlahka zamenjati.  
 Tämän tuotteen akku [akut] ei[vät] ole helposti käyttäjän vaihdettavissa.  
 Det är inte enkelt för kunden att själv byta ut batteriet/batterierna.  
 Bu üründe ki batarya(lar) kullanıclılar tarafından kolaylıkla deęiştirilemez.

# *Tavolo coding e Pouf*

# Creo L



## Il piano

- Spessore: 22mm
- Materiale piano: Truciolare nobilitato
- Materiale rivestimento: Melamina
- Rivestimento: Nero opaco
- Bordo: ABS spessore 2mm, raggato 2mm

## La struttura

- Strutture con gambe regolabili in altezza:  
Min 53 (M4) Max 76 (M6)
- Ruote con freno

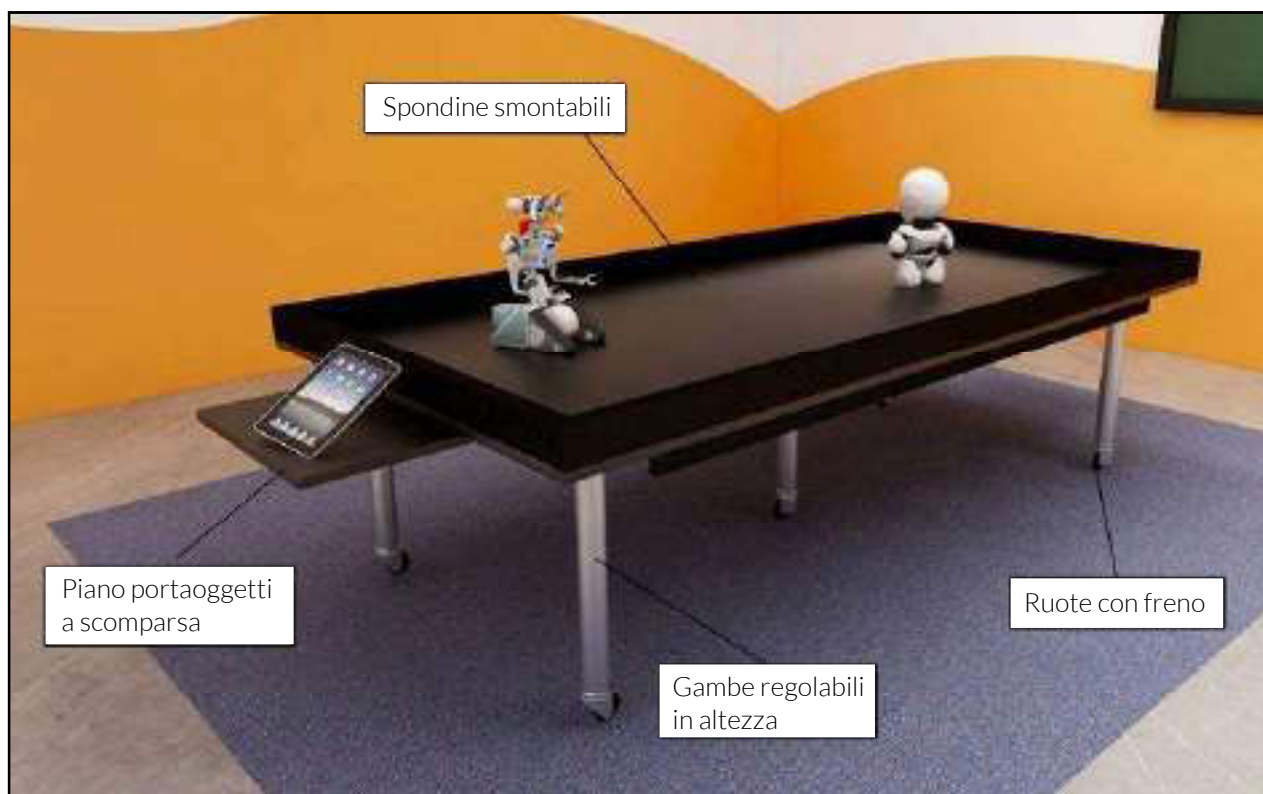
## Progettato per le competizioni

### FIRST® LEGO® League e MakeX\*

Il tavolo Creo L è realizzato secondo le indicazioni ufficiali per le competizioni di robotica educativa First® Lego® League e MakeX: la miglior soluzione per allenarsi e competere nelle gare di robotica educativa.

\*FIRST® (marchio registrato di For Inspiration and Recognition of Science and Technology),  
LEGO® (marchio registrato di LEGO Group) e  
MakeX.





## Adatto a tutti i contesti

È possibile configurare l'altezza in funzione al contesto: da 53cm, altezza adatta all'utilizzo nelle prime classi della Primaria, fino a 76cm, configurazione indispensabile se il tavolo viene utilizzato nelle ultime classi della Secondaria di secondo grado.



## Facile da spostare

Grazie alle ruote in metallo ad alto scorrimento è possibile movimentare il tavolo in maniera semplice e agile. Le ruote possono essere frenate per dare stabilità ed evitare gli spostamenti accidentali.



## Spazio in più

Le mensole a scomparsa consentono di avere a disposizione uno spazio aggiuntivo per riporre strumenti di lavoro o componenti utili alla competizione.



## Spazio alla creatività

Le spondine fissate al piano sono smontabili in pochi semplici passaggi per trasformare il tavolo in un'ampia superficie da utilizzare per molteplici attività.

L'operazione è semplice e rapida, non richiede alcun attrezzo ed è alla portata di tutti, anche dei più piccoli.

Il piano è di colore nero opaco, materiale superficiale ad alta resistenza per ogni tipo di utilizzo.



## Codice prodotto

Tavolo Creo L: T.RBTL.236125.MXfN.N

# Pouf Morbidi



## Caratteristiche

- Composizione morbida e leggera
- Rivestimento in similpelle
- Ignifughi
- Sfoderabili e lavabili

## Colore e allegria per allestire gli ambienti

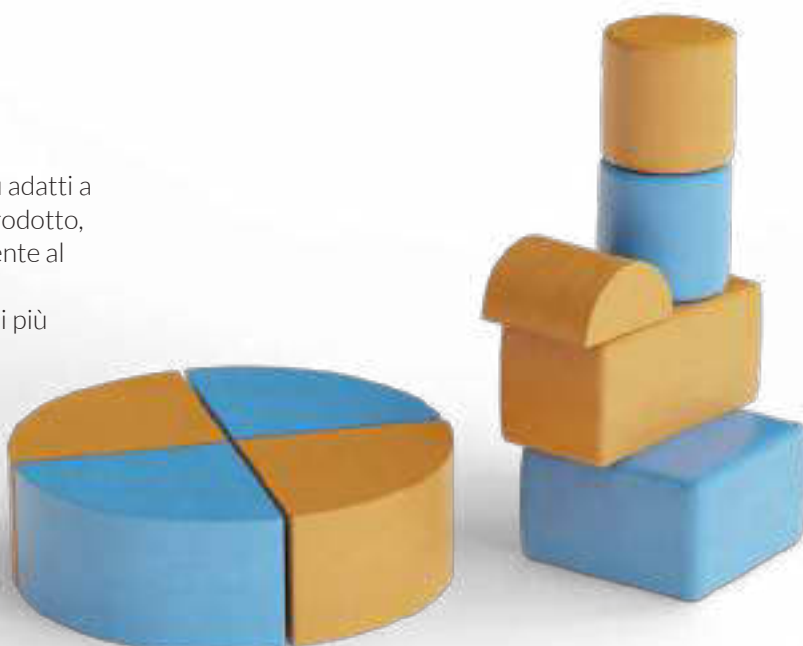
I pouf morbidi sono composti da poliuretano, anche ignifugo, rivestito in similpelle ignifuga e possono costituire degli elementi colorati e divertenti all'interno di spazi polifunzionali, aree comuni e zone gioco.

## Densità e peso per ogni età

Sono disponibili in due versioni:

Ignifughi con densità del materiale di 30kg/mc più adatti a ragazzi e per luoghi dove è richiesto che tutto il prodotto, rivestimento e materiale d'imbottitura, sia resistente al fuoco (classe 1)

Con densità del materiale di 21kg/mc pensati per i più piccoli, con rivestimento in ecopelle ignifuga.





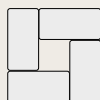
## Spazio alla fantasia

I Pouf morbidi sono leggeri e sicuri, possono essere sovrapposti e spostati facilmente. Sono adatti anche per essere utilizzati dai bambini, che possono allestire con fantasia gli ambienti.

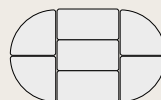
K-4PF.GM.H40.ds30



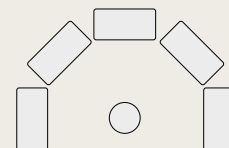
K-4RPF.GM.H40.ds30



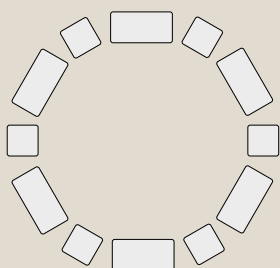
K-7PF.GM.H40.ds30



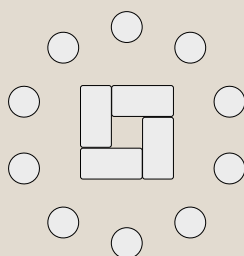
K-6PF.GM.H40.ds30



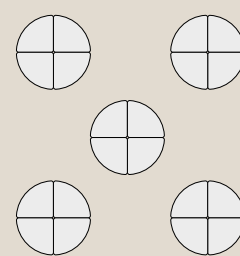
K-12PF.GM.H40.ds30



K-14PF.GM.H40.ds30



K-20PF.GM.H40.ds30



## Rivestimento certificato

Sia il rivestimento in similpelle che l'imbottitura sono di origine italiana e garantiscono il rispetto delle più severe normative.

Sono certificati CERTIPUR, lo standard per la sicurezza per la Salute dell'uomo e per l'ambiente e OEKO TEX 100, lo strumento per il controllo della qualità aziendale e test per le sostanze nocive.

Il rivestimento dei pouf è stato creato appositamente per il settore arredo infanzia e media età: privo di PVC e ftalati, antibatterico, ignifugo, senza coloranti e sensibilizzanti allergici e cancerogeni. Ha inoltre delle caratteristiche adatte agli ambienti didattici e ludici perché offre un'ampia gamma di colori, elevata resistenza alla trazione ed è lavabile a secco con comuni detergenti neutri.





Cubo



Parallelepipedo



Triangolo



Cilindro



Semicilindro



Tondo



Quadro



Spicchio



Girandola



Poltrona



Divano



## Colori e rivestimenti

I Pouf morbidi sono disponibili in Similpelle ignifuga (.EI).  
La cartella colori è disponibile a fine catalogo.

## Codici prodotto

Pouf Morbidi					
Forma	Base (± 0,5cm)	Altezza (± 0,5cm)	Schienale	Codice con imbottitura PE 21Kg/m3	Codice con imbottitura ignifuga PE 30Kg/m3
Parallelepipedo	30 x 60	30	No	PF.GM.L3060.H30.ds21.EI1.X	PF.GM.L3060.H30.ds30.FR.EI1.X
	40 x 80	40	No	PF.GM.L4080.H40.ds21.EI1.X	PF.GM.L4080.H40.ds30.FR.EI1.X
Triangolo	Lato 30	30	No	PF.GM.T30.H30.ds21.EI1.X	PF.GM.T30.H30.ds30.FR.EI1.X
	Lato 40	40	No	PF.GM.T40.H40.ds21.EI1.X	PF.GM.T40.H40.ds30.FR.EI1.X
Cubo	30 x 30	30	No	PF.GM.L30.H30.ds21.EI1.X	PF.GM.L30.H30.ds30.FR.EI1.X
	40 x 40	40	No	PF.GM.L40.H40.ds21.EI1.X	PF.GM.L40.H40.ds30.FR.EI1.X
Cilindro	Ø 30	30	No	PF.GM.d30.H30.ds21.EI1.X	PF.GM.d30.H30.ds30.FR.EI1.X
	Ø 30	60	No	PF.GM.d30.H60.ds21.EI1.X	PF.GM.d30.H60.ds30.FR.EI1.X
	Ø 40	40	No	PF.GM.d40.H40.ds21.EI1.X	PF.GM.d40.H40.ds30.FR.EI1.X
	Ø 40	80	No	PF.GM.d40.H80.ds21.EI1.X	PF.GM.d40.H80.ds30.FR.EI1.X
Semicilindro	Ø 30 x 15	30	No	PF.GM.d30x15.H30.ds21.EI1.X	PF.GM.d30x15.H30.ds30.FR.EI1.X
	Ø 30 x 15	60	No	PF.GM.d30x15.H60.ds21.EI1.X	PF.GM.d30x15.H60.ds30.FR.EI1.X
	Ø 40 x 20	40	No	PF.GM.d40x20.H40.ds21.EI1.X	PF.GM.d40x20.H40.ds30.FR.EI1.X
	Ø 40 x 20	80	No	PF.GM.d40x20.H80.ds21.EI1.X	PF.GM.d40x20.H80.ds30.FR.EI1.X
Seduta Divano	100 x 50	25	Si	PF.GM.SD10050.H25.ds21.EI1.X	PF.GM.SD10050.H25.ds30.FR.EI1.X
	100 x 70	40	Si	PF.GM.SD10070.H40.ds21.EI1.X	PF.GM.SD10070.H40.ds30.FR.EI1.X
	120 x 60	32	Si	PF.GM.SD12060.H32.ds21.EI1.X	PF.GM.SD12060.H32.ds30.FR.EI1.X
Seduta Poltrona	35 x 50	25	Si	PF.GM.SD3550.H25.ds21.EI1.X	PF.GM.SD3550.H25.ds30.FR.EI1.X
	50 x 60	32	Si	PF.GM.SD5060.H32.ds21.EI1.X	PF.GM.SD5060.H32.ds30.FR.EI1.X
	50 x 70	40	Si	PF.GM.SD5070.H40.ds21.EI1.X	PF.GM.SD5070.H40.ds30.FR.EI1.X
Seduta Quadro	48 x 48	25	No	PF.GM.SDL48.H25.ds21.EI1.X	PF.GM.SDL48.H25.ds30.FR.EI1.X
	60 x 60	32	No	PF.GM.SDL60.H32.ds21.EI1.X	PF.GM.SDL60.H32.ds30.FR.EI1.X
	65 x 65	40	No	PF.GM.SDL65.H40.ds21.EI1.X	PF.GM.SDL65.H40.ds30.FR.EI1.X
Seduta Spicchio	Lato 48	25	No	PF.GM.SDS48.H25.ds21.EI1.X	PF.GM.SDS48.H25.ds30.FR.EI1.X
	Lato 60	32	No	PF.GM.SDS60.H32.ds21.EI1.X	PF.GM.SDS60.H32.ds30.FR.EI1.X
	Lato 65	40	No	PF.GM.SDS65.H40.ds21.EI1.X	PF.GM.SDS65.H40.ds30.FR.EI1.X
Seduta Tonda	Ø 48	25	No	PF.GM.SDd48.H25.ds21.EI1.X	PF.GM.SDd48.H25.ds30.FR.EI1.X
	Ø 60	32	No	PF.GM.SDd60.H32.ds21.EI1.X	PF.GM.SDd60.H32.ds30.FR.EI1.X
	Ø 65	40	No	PF.GM.SDd65.H40.ds21.EI1.X	PF.GM.SDd65.H40.ds30.FR.EI1.X
Girandola	Ø 120	30	No	PF.GM.SDGIROd120.H30.ds21.EI1.X	PF.GM.SDGIROd120.H30.ds30.FR.EI1.X



# Pouf a Sacco

---



## Comodi e pratici per gli spazi informali

I pouf a sacco sono ideali per allestire gli spazi comuni informali, dedicati all'incontro o al relax. Sono disponibili in tanti colori, quindi si adattano facilmente a tutti gli ambienti.

Sono facili da spostare e impilabili per ridurre gli ingombri, l'imbottitura morbida li rende perfetti anche per l'uso da parte dei più piccoli.

La versione in poliestere può essere utilizzata anche all'esterno per allestire giardini e terrazze.



## Qualità e resistenza

I pouf possono essere rivestiti anche in similpelle interamente made in Italy, anallergica e resistente alle pieghe ed alle abrasioni. Il nostro tessuto e le cuciture rinforzate a mano rendono il pouf impermeabile e antistrappo.

La poltrona è riempita con le migliori perle in polistirolo, che lo isolano perfettamente dal pavimento, rinchiusa da una doppia fodera con zip.

Il rivestimento è facilmente pulibile con il passaggio di spugna umida.





## Colori e rivestimenti

I Pouf a sacco sono disponibili in Similpelle (.EPL2) e Poliestere (.PE).  
La cartella colori è disponibile a fine catalogo.

### Codici prodotto

	Sacchi							
	SC.100140.PE.X	SC.85135.PE.X	SC.70110.PE.X	SC.5595.PE.X	SC.100140.EPL2.X	SC.85135.EPL2.X	SC.70110.EPL2.X	SC.5595.EPL2.X
Diametro della base (cm)	100	85	70	55	100	85	70	55
Altezza (cm)	140	135	110	95	140	135	110	95
Peso (kg)	4,8	3,1	2	1,8	4,8	3,1	2	1,8
Materiale di rivestimento	Poliestere				Similpelle			



Il sottoscritto MARUSSI GIACOMO nato a GORIZIA il 20.10.1974 residente a GRADISCA D'ISONZO (GO) in via AQUILEIA n° 120G, legale rappresentate della ditta AURORA GROUP SRL con sede in via M. Pompanin 3 a Mariano del Friuli (GO) p.iva 00541910311

In qualità di produttore degli arredi con marchio ArredaLab o di rivenditore di altri prodotti

ai sensi degli artt. 46 e 47 del D.P.R. 445/2000, consapevole delle sanzioni penali previste per le ipotesi di falsità in atti e dichiarazioni mendaci, così come stabilito dall'art. 76 del DPR 28/12/2000, n. 445, nonché della decadenza dei benefici prodotti da provvedimenti emanati sulla base di dichiarazioni non veritiere ai sensi dell'art. 75, del medesimo decreto,

## D I C H I A R A

Che gli arredi denominati:

Tiglio Fisso (Serie M)

Tiglio Ribaltabile (Serie M)

Pino (Serie M)

Pino R (Serie M)

Pino RB (Serie M)

Pino C (Serie M)

Cedro

Pioppo

Flora (rivestimento in tessuto ignifugo)

Alloro

Mirto (rivestimento in tessuto ignifugo)

sono conformi ai Criteri Ambientali Minimi – CAM - decreto DM 23.06.2022 tipologia “Arredi scolastici”

Che gli arredi denominati:

Armadiature Edera

Giglio Wood

Ginkgo

sono in fase di certificazione



Aurora Group S.r.l.

**Sede**  
Via M Pompanin 3 34070 Mariano DF (GO)

tel. +39 0481 1906678

info@arredalab.it  
www.arredalab.it

P.Iva e Cod Fiscale IT00541910311  
Rea GO-61744 Cod Dest PEC aurora.1998@pec.it  
Cap. Soc. euro 100.000€ i.v.

Che gli arredi denominati Betulla sono conformi ai Criteri Ambientali Minimi – CAM - decreto DM 23.06.2022 tipologia "Sedute per ufficio"

In relazione all'allegato del decreto DM 23 giugno 2022 e, in particolare, alla Tabella A del Capoverso 1 intitolata "Codici CPV degli arredi rientranti nell'ambito di applicazione del presente documento", in cui sono elencati gli articoli di arredo per interni ai quali si applicano i CAM (criteri ambientali minimi), si è giunti alla valutazione che le seguenti famiglie di articoli, per le loro peculiarità e le presunte destinazioni d'uso, non presentano una corrispondenza con nessun codice presente nella suddetta tabella:

Accessori opzionali serie Pino/Tiglio

Tribunetta Edera

Panche Edera

Contenitori per armadiature

Fioriere

Creo

Creo L

Armadio Display

Mariano del Friuli, 31 maggio 2023

  
**Aurora Group S.r.l.**  
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In qualità di produttore degli arredi con marchio ArredaLab o di rivenditore di altri prodotti similari

ai sensi degli artt. 46 e 47 del D.P.R. 445/2000, consapevole delle sanzioni penali previste per le ipotesi di falsità in atti e dichiarazioni mendaci, così come stabilito dall'art. 76 del DPR 28/12/2000, n. 445, nonché della decadenza dei benefici prodotti da provvedimenti emanati sulla base di dichiarazioni non veritiere ai sensi dell'art. 75, del medesimo decreto,

## D I C H I A R A

che gli arredi non sono menzionati nella guida operativa della Circolare del 30 dicembre 2021, n. 32 per il rispetto del principio del "Do No Significant Harm" (DNSH) ovvero di non arrecare danno significativo all'ambiente.

Pertanto si presume che tale principio non debba essere applicato ai prodotti di arredi.

Mariano del Friuli, 9 giugno 2023

  
**Aurora Group S.r.l.**  
via pompanin 3 34070 Mariano del Fr. GO  
cod. fiscale/iva 00541910311  
pec: aurora.1998@pec.it  
+39 0481 1906678



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Cap. Soc. euro 100.000€ i.v.



Il sottoscritto MARUSSI GIACOMO nato a GORIZIA il 20.10.1974 residente a GRADISCA D'ISONZO (GO) in via AQUILEIA n° 120G, legale rappresentate della ditta AURORA GROUP SRL con sede in via M. Pompanin 3 a Mariano del Friuli (GO) p.iva 00541910311

## In qualità di produttore degli arredi con marchio arredaLAB®

ai sensi degli artt. 46 e 47 del D.P.R. 445/2000, consapevole delle sanzioni penali previste per le ipotesi di falsità in atti e dichiarazioni mendaci, così come stabilito dall'art. 76 del DPR 28/12/2000, n. 445, nonché della decadenza dei benefici prodotti da provvedimenti emanati sulla base di dichiarazioni non veritiere ai sensi dell'art. 75, del medesimo decreto,

## DICHIARA

che tutti i prodotti con marchio arredaLAB e dotati delle certificazioni CAM (Criteri ambientali minimi), hanno una garanzia per difetti di fabbricazione di 5anni oltre che, per lo stesso periodo, aver disponibili le parti di ricambio: per queste ultime il contatto a cui effettuare la richiesta è [info@arredalab.it](mailto:info@arredalab.it).

Per tutti i prodotti non dotati delle certificazioni CAM, la garanzia per difetti di fabbricazione è di 1anno.

  
**Aurora Group S.r.l.**  
via pompanin 3, 34070 Mariano del Fr. (GO)  
cod. fiscale p.iva 00541910311  
pec: aurora.1998@pec.it  
+39 0432 751300



# Webcam

logitech®

# RIUNIONI PIÙ INTELLIGENTI AUTOMATICAMENTE.



## Logitech Rally

Logitech® Rally offre un sistema di imaging Ultra HD, che garantisce video incredibilmente nitidi, colori straordinari e un'eccezionale precisione ottica con risoluzioni fino a 4K. Il sistema audio modulare offre un audio nitido e pulito e una chiarezza vocale senza pari.

Rally viene fornito di serie con un altoparlante e un mic pod per le sale riunioni di medie e grandi dimensioni. Per spazi più ampi con 14 partecipanti o più, Rally Plus offre due mic pod e due altoparlanti per una maggiore versatilità immediata.

Grazie ai componenti audio modulari di Rally, gli altoparlanti e i mic pod possono essere posizionati ovunque sia necessario, ottenendo una copertura audio completa nello spazio di riunione. Rally supporta fino a sette mic pod in totale, aiutandoti a creare la configurazione audio perfetta per il tuo spazio.

Rally integra le tecnologie proattive RightSense™, che migliorano, facilitano e automatizzano le riunioni. RightSight™ inquadra automaticamente i partecipanti indipendentemente dalla loro distanza dall'obiettivo e RightLight™ privilegia i

volti rispetto all'ambiente per rendere naturale la tonalità della pelle. Invece RightSound aiuta a ridurre i rumori di fondo, così da rendere le voci più chiare ed equilibrate, incentrandosi su chi sta parlando. RightSense è compatibile con la maggior parte delle applicazioni di videoconferenza che funzionano con i dispositivi USB, tra cui Google® Hangouts™ Meet, Microsoft® Skype® for Business e Teams, nonché Zoom.

Dal design elegante con finiture di alta qualità, un'attenta gestione dei cavi e audio modulare, Rally si integra perfettamente in qualsiasi ambiente.

## FUNZIONALITÀ E VANTAGGI

### VIDEO

#### Qualità video eccellente

Grazie al sistema di imaging Ultra HD, la videocamera Rally offre video incredibilmente nitidi, colori straordinari e un'eccezionale precisione ottica con risoluzioni fino a 4K.

#### Panoramica, inclinazione e zoom adattivi

Il silenziosissimo motore PTZ regola la velocità di panoramica e inclinazione in base al livello di zoom. Ne risultano movimenti della videocamera più rapidi quando si riduce lo zoom per regolare l'inquadratura e più lenti quando invece si aumenta lo zoom per garantire maggiore controllo.

#### Elegante design industriale

La videocamera PTZ premium è elegantemente rifinita in nero opaco con finiture in metallo grigio ardesia e completata da componenti audio e accessori dal design raffinato che si adattano a qualsiasi ambiente.

### AUDIO

#### Audio modulare avanzato

Rally offre un audio naturale, nitido e altamente intelligibile. I mic pod ad alta sensibilità consentono a tutti i partecipanti della riunione di essere ascoltati in modo chiaro, mentre gli altoparlanti autonomi diffondono un audio nitido e naturale nelle sale più grandi.

#### Audio dalla parte anteriore della sala

I Rally speaker sono progettati per essere posizionati nella parte anteriore della sala. Con i mic pod sul tavolo e gli altoparlanti vicino al display, le voci e i video provengono da una direzione naturale e mai alle spalle, rendendo le conversazioni più naturali e realistiche.

#### Fino a 7 mic pod

Per le sale riunioni di grandi dimensioni, è possibile aggiungere mic pod Rally per espandere la copertura audio e fornire un comodo accesso ai controlli di disattivazione audio. Ogni pod aggiunge una copertura per sei partecipanti aggiuntivi, l'ideale per allestire spazi e sale riunioni di grandi dimensioni.

### CONNETTIVITÀ E UTILIZZO

#### Cablaggio intelligente e condivisione di contenuti

Con un hub da schermo e uno da tavolo per ridurre al minimo i cablaggi in sala, i componenti Rally e il computer per le riunioni possono essere facilmente nascosti.

#### Forte e chiaro

Gli amplificatori integrati nell'hub da schermo Rally possono alimentare fino a due Rally Speaker, fornendo un audio nitido anche nelle sale più grandi.

#### Cablaggio per mic pod flessibile opzionale

Rally Mic Pod Hub permette di ridurre al minimo i cablaggi incrociati sui tavoli grazie a tre connettori per mic pod Rally o eventuali hub per mic pod aggiuntivi, consentendo ai partecipanti di riposizionare i singoli pod o di avere a portata di mano il controllo di disattivazione audio.

#### Kit di montaggio opzionale

Aggiungi il kit di montaggio Rally per semplificare l'installazione di ogni componente con staffe e materiale per il montaggio personalizzati.

## TECNOLOGIE RIGHTSENSE E INNOVAZIONI DI DESIGN

Le tecnologie Logitech RightSense integrate, presenti in Rally, garantiscono un'esperienza utente ottimizzata. RightSight inquadra automaticamente e in modo perfetto i partecipanti, indipendentemente dalla loro distanza dall'obiettivo. RightLight dà priorità ai volti rispetto all'ambiente, per rendere naturale la tonalità della pelle, mentre RightSound rende più chiare le voci riducendo i rumori di fondo, equilibrando le voci e incentrandosi su chi sta parlando.

#### RightSight

La tecnologia di controllo della videocamera Logitech RightSight sposta automaticamente l'obiettivo e regola lo zoom in modo che nessuno rimanga fuori dall'inquadratura. RightSight rileva le figure umane, non solo i volti, per garantire che i partecipanti alla riunione siano sempre inquadrati in modo ottimale sullo schermo.

#### RightLight

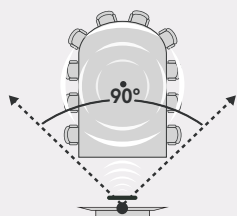
Logitech RightLight con Wide Dynamic Range (WDR) aiuta tutti ad apparire al meglio davanti alla videocamera, indipendentemente dalle condizioni di illuminazione. La tecnologia RightLight riduce i disturbi video, ottimizza il bilanciamento della luce e regola colori e saturazione per risultati naturali con qualsiasi tonalità di pelle.

#### RightSound

Logitech RightSound è una suite di tecnologie di elaborazione audio e innovazioni di progettazione che offrono videoconferenze con qualità audio di livello enterprise. Ottimizzata per la voce umana, RightSound riduce vibrazioni e rumori indesiderati e si concentra su chi sta parlando per riprodurre ogni parola con estrema chiarezza.

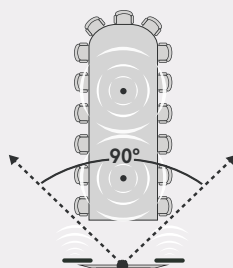
## SCHEMI DI CONFIGURAZIONE DELLA SALA

### Rally



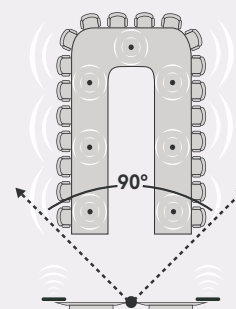
FINO A 10 POSTAZIONI

### Rally Plus



FINO A 16 POSTAZIONI

### Rally Plus



MIC POD OPZIONALI  
1 MICROFONO OPZIONALE = 6 POSTAZIONI AGGIUNTIVE

FINO A 46 POSTAZIONI

## ACCESSORI



### RALLY SPEAKER

Rally supporta fino a 2 Rally Speaker per sale più grandi



### MIC POD RALLY

Rally supporta fino a 7 mic pod Rally per una copertura audio completa in sale più grandi



### RALLY MIC POD HUB OPZIONALE

Collega da 1 a 3 mic pod Rally o hub per mic pod aggiuntivi per un cablaggio flessibile a cavo singolo



### KIT DI MONTAGGIO RALLY OPZIONALE

Kit di montaggio Rally con agganci per cavi e staffe di montaggio per Rally Camera, Rally Speaker (x2), hub da tavolo e hub da schermo

## SPECIFICHE TECNICHE

### VIDEOCAMERA RALLY

Il sistema di imaging Ultra HD supporta:  
4K, 1440p, 1080p, 900p, 720p, e SD a 30fps  
1080p, 720p a 30 fps e 60 fps

Panoramica, inclinazione e zoom motorizzati fluidi

Panoramica:  $\pm 90^\circ$

Inclinazione:  $+ 50^\circ / -90^\circ$

Zoom 15x HD

Campo visivo  $90^\circ$

Velocità di rotazione e inclinazione adattiva fino a  $70^\circ$  al secondo (rallenta quando si esegue lo zoom avanti per un controllo più semplice)

Rilevamento automatico dell'inversione per correggere l'orientamento dell'immagine e i controlli della videocamera quando questa è montata capovolta

Messa a fuoco automatica

3 impostazioni predefinite videocamera

Slot di sicurezza Kensington®

Indicatore LED disattivazione/riattivazione audio video

Filettatura per treppiede standard

In modalità non attiva l'obiettivo si blocca a  $-90^\circ$  per garantire la privacy

### MIC POD RALLY

Raggio d'azione: 4,5 m di diametro

Quattro microfoni con otto elementi beamforming

Pulsante di disattivazione audio con indicatore di stato a LED

Cavo prigioniero: 2,95 m

Collegamento a margherita per un massimo di 7 mic pod Rally

Partecipanti consigliati:  
Rally (un mic pod): 10  
Rally Plus (due mic pod): 16  
Partecipanti aggiuntivi per mic pod: 6  
Partecipanti consigliati per Rally con 7 mic pod: 46

### RALLY SPEAKER

Driver da 76 mm ad alte prestazioni

Il sistema di sospensioni in attesa di brevetto elimina le vibrazioni della fotocamera e le interferenze audio

Il cavo Mini XLR (2,95 m) si connette all'hub da schermo Rally per il segnale e l'alimentazione

### HUB DA SCHERMO RALLY

Connessione con cavo singolo (CAT6A) all'hub da schermo Rally (cavo Ethernet CAT6A da 5 m incluso, installazioni di cavi forniti dal cliente fino a 50 m)

Rilevamento del relatore: analizza l'audio di un massimo di 7 mic pod e 56 fasci ogni 8 ms

Connettore a 12 pin per mic pod Rally

HDMI Type A per condivisione di contenuti cablati

HDMI Type A per schermo

Ingresso alimentazione

USB Type C (supporto Ultra HD/4K)

USB Type A (riservato per funzionalità future)

USB Type B (connessione al computer della sala riunioni)

RJ45 (Ethernet)

Tecnologia wireless Bluetooth®

### HUB DA SCHERMO RALLY

HDMI Type A (x2) (connessione agli schermi)

Ingresso alimentazione

USB C (connessione alla videocamera Rally)

USB Type B (connessione al computer della sala riunioni)

RJ45 (connessione all'hub da tavolo)

Mini XLR (x2) (connessione agli altoparlanti Rally)

Alimenta uno o due altoparlanti Rally

### TELECOMANDO

Telecomando RF (linea di vista non richiesta)

Batterie CR2032 (incluse)

### CAVI/ALIMENTAZIONE

Dalla videocamera all'hub da schermo 2 m - Da USB 3.1 Type C a USB Type C 3.1

Dal computer della sala conferenze all'hub da schermo o da tavolo 2 m - Da USB 3.1 Type A a USB Type B

Dall'hub da schermo all'hub da tavolo  
Cavo Ethernet CAT6A da 5 m (supporta cavi forniti dall'utente fino a 50 m)

Dall'hub da schermo all'altoparlante (x2) 2,95 m - Mini XLR (supporta cavi di estensione forniti dall'utente fino a 3 m)

Dal computer della sala conferenze agli schermi (x2)  
HDMI A da 2 m

Mic Pod  
2,95 m: Cablato con connettore a 12 pin

Dalle prese di corrente agli alimentatori (x2)  
1 m

Dalle prese di corrente all'hub da tavolo/hub da schermo (x2)  
1,5 m

### TECNOLOGIE RIGHTSENSE

RightLight con ampia gamma dinamica (WDR)

Controllo automatico della videocamera RightSight<sup>1</sup>

Matrice dei microfoni RightSound

Altoparlanti anti-vibrazione RightSound

### COMPATIBILITÀ E INTEGRAZIONI

Connettività USB plug-and-play

Certificata per Skype for Business e predisposizione per Teams

La certificazione Google Hangouts scopre l'hardware

Certificazione Zoom

Compatibile con Cisco

Compatibile con BlueJeans, BroadSoft®, Vido™ e altre applicazioni di videoconferenza, registrazione e trasmissione che supportano le videocamere USB





## SPECIFICHE DEL PRODOTTO

### Rally

N. parte: 960-001218  
UPC: 097855140203

### Rally Plus

N. parte: 960-001224  
UPC: 097855140227

### Rally Speaker

N. parte: 960-001230  
UPC: 097855142962

### Mic pod Rally

N. parte: 989-000430  
UPC: 097855142955

### Rally Mic Pod Hub

N. parte: 939-001647  
UPC: 097855143143

### Kit di montaggio Rally

N. parte: 939-001644  
UPC: 097855142979

## DOWNLOAD DEL SOFTWARE

Software per le impostazioni della videocamera  
Logitech

## GARANZIA

2 anni di garanzia limitata sull'hardware

## CONTENUTO DELLA CONFEZIONE

Rally Camera  
Altoparlante: 1 (Rally) o 2 (Rally Plus)  
Mic pod: 1 (Rally) o 2 (Rally Plus)  
Hub da tavolo  
Hub da schermo  
2 alimentatori  
Telecomando  
Cavo da USB C a C  
Cavo da USB A a B  
CAT6A  
2 cavi HDMI da A a A  
Documentazione

## DIMENSIONI DEL PRODOTTO

### Rally Camera

7,19" x 5,98" x 5,98"  
182,5 mm x 152 mm x 152 mm

### Rally Speaker

4,05" x 17,67" x 3,15"  
103 mm x 449 mm x 80 mm

### Rally Mic Pod

0,83" x 4,01" x 4,01"  
21 mm x 102 mm x 102 mm

### Hub da tavolo Rally

1,57" x 6,93" x 5,43"  
40 mm x 176 mm x 138 mm

### Hub da schermo Rally

1,57" x 8,11" x 7,05"  
40 mm x 206 mm x 179 mm

### Rally Mic Pod Hub

0,63" x 4,01" x 4,01"  
16 mm x 102 mm x 102 mm

## REQUISITI DI SISTEMA

Compatibile con UVC/plug-and-play  
Windows® 10, 8.1, 7  
macOS® 10.10 o versioni successive  
Chrome OS™

\*RightSight viene abilitato scaricando un software con supporto iniziale per Windows® 10. Per informazioni sulla disponibilità, visitare [www.logitech.com/rightsight](http://www.logitech.com/rightsight).

[www.logitech.com/rally](http://www.logitech.com/rally)

Logitech Inc. 7700 Gateway Blvd., Newark, CA 94560

**Per ordinare, contatta il tuo rivenditore  
o chiamaci al numero 800-308-8666**

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Publicato a marzo 2023

logitech

# ULTRA HIGH DEF FOR ULTRA HIGH EXPECTATIONS.



## Logitech BRIO

Logitech® delivers our best ever webcam with 4K UHD and 5X zoom for truly amazing video quality.

BRIO's 4K image sensor is a next-generation powerhouse that enables 5X digital zoom, high frame rates and multiple resolutions to optimally support any compute/network environment. Logitech's

RightLight™ 3 with HDR helps you look your best in any illumination, from low light to direct sunlight. Advanced Logitech optics deliver razor-sharp video resolution with autofocus and multiple FOV options – 65°, 78°, and 90°.

BRIO is also packed with extras, including support for infrared-based facial

recognition to strengthen login security, works with Microsoft Cortana®, supports multiple connection types, and provides the freedom to mount the camera wherever it works best – LCD screen, notebook, or tabletop – with the removable clip or embedded tripod thread.



BlueJeans

lifesize

zoom



broadsoft



# Logitech BRIO



## FEATURES & BENEFITS

### Ultra HD 4K image sensor

Supports multiple resolutions, including 4K (Ultra HD) @ 30 fps, 1080p (Full HD) @ 30 or 60 fps and 720p (HD) @ 30, 60, or 90 fps to best support the quality offered by your application and monitor.

### RightLight™ 3 with HDR

Look your best in any lighting environment, from low light to direct sunlight or high contrast.

### Ultra-secure login with infrared sensor

Infrared technology supports facial recognition for advanced security with Windows Hello™ or other facial recognition software.

### 5X digital zoom

Need a closer view of fine details? Zoom in and move around your scene with precision using Logitech or in-app controls.

### Expansive field of view

Adjust your field of view from 90° to show more of your setting or include more people—or narrow the scope to 65° or 78° for more focused communication.<sup>1</sup>

### Razor-sharp optics with autofocus

Enhance face-to-face collaboration. BRIO is the next best thing to physically being there. Advanced Logitech autofocus lens technology delivers remarkable video quality with superb resolution, speed, fluidity, color balance, and detail.

### Certified for Business

Business-grade certifications<sup>2</sup> mean you can launch your next presentation or video meeting with complete confidence.

### Omni-directional microphones

Two omni-directional microphones with noise cancellation provide business-class audio performance. Mics even work with Microsoft® Cortana®.

### Multiple mounting options

Freedom to mount the camera wherever it works best – LCD screen, notebook, or tabletop – by using the removable clip or embedded tripod thread. Clip is adjustable to fit a variety of screens.

### Plug-and-play USB connectivity

Easily connects to PC, Mac® and Chrome™ devices with no additional software required.

### Privacy shade

Switch to privacy mode in an instant with the privacy shade.

### Multiple connection types

Enjoy the flexibility of USB 2.0 (up to Full HD) and USB 3.0 (up to 4K).

### Custom carrying case

Take your show on the road. The custom carrying case features separate compartments for the camera and detachable clip/cable to conveniently transport BRIO wherever your travels take you.

## PRODUCT SPECIFICATIONS

### BRIO

Part #: 960-001106

EAN Code: 5099206068100

## SYSTEM REQUIREMENTS

Windows 7, Windows 8.1, or Windows 10

Mac OS X® 10.7 or higher

Google Chromebook™ Version 29.0.1547.70,

Platform 4319.79.0 with:

2.4 GHz Intel® Core 2 Duo processor

2 GB RAM or more

Hard drive space for recorded videos

USB 2.0 port (USB 3.0 ready)

## COMPATIBILITY

UVC/plug-and-play compatible

Works with Cortana

Cisco Jabber™ and WebEx® compatible

## CERTIFICATIONS

Certified for Skype® for Business<sup>3</sup>, Windows®, Mac,

and Microsoft Windows Hello™ certified

## PRODUCT DIMENSIONS + WEIGHT

### Camera

102 x 27 x 27 mm

4 x 1 x 1"

63 g/2.2 oz

### Clip

36 x 99 x 6 mm

1.4 x 3.9 x 0.22"

44 g/1.5 oz

### Cable

2.2 m

7.2'

63 g/2.2 oz

## INSIDE THE BOX

Webcam camera, removable clip, and USB 3.0 cable

(compatible with USB 2.0 and Type C)

## SOFTWARE DOWNLOADS

Designed to work with the built-in operating system

USB video-class driver

Optional Camera Settings App provides:

Adjustable field of view

Camera image settings

Pan, tilt and zoom

Integrated background replacement labs project,

powered by Personify

To download visit: [www.logitech.com/support/brio](http://www.logitech.com/support/brio)

## WARRANTY

3-year limited hardware

[www.logitech.com/BRIO](http://www.logitech.com/BRIO)

For orders or further questions, please contact your preferred reseller.

Logitech Europe S.A., EPFL - Quartier de l'Innovation  
CH-1015 Lausanne

<sup>1</sup> Requires software download.

<sup>2</sup> Certified for Skype for Business, Cisco Jabber® and WebEx® compatible.

<sup>3</sup> See [www.logitech.com/ciscocompatibility](http://www.logitech.com/ciscocompatibility) for the latest version.

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