

अनिवार्य आवश्यकताएँ

संख्या : TEC12832108

Essential Requirements

ER No. : TEC12832108

Conferencing and Presentation Equipment

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Telecommunication Engineering Centre

Government of India

Khurshid Lal Bhawan, Janpath, New Delhi-110001, INDIA

Essential Requirements for:

Conferencing and Presentation Equipment

Certification Scheme: **GCS**

Product Fee Group: **B**

This ER covers all types of Audio Video Conferencing Equipment, Meeting Room Presentation Equipment and Audio Conferencing Equipment using interfaces other than 2-wire.

Note: Annexures referred to in this ER are Annexures as mentioned in "Annexures to ERs" No. TEC/SD/DD/TCP-222/02/June19 as updated from time to time and available on MTCTE portal.

This product has the following variants:

1. Conferencing and Presentation Equipment

1. Variant 1 : Conferencing and Presentation Equipment

1.1 Parameters Linked with Product Variant

S.No.	Parameter Name	Standard Name
1.1.1	Conducted And Radiated Emission - Class B	TEC EMI EMC Standard CISPR 22/32 EN55022/32. Annex-B
1.1.2	Dual IP Layer Operation RFC 4213 - Address	RFC 4213 Cl. 2.1. Annex-P6
1.1.3	Dual IP Layer Operation RFC 4213 - DNS	RFC 4213 Cl. 2.1. Annex-P6
1.1.4	Immunity to AC Voltage Dips and Short Interruptions	TEC EMI EMC Standard EN/IEC:61000-4-11. Annex-B
1.1.5	Immunity to DC Voltage Dips and Short Interruptions	EN/IEC:61000-4-29. Annex-B
1.1.6	Immunity to Electrostatic Discharge	TEC EMI EMC Standard EN/IEC:61000-4-2. Annex-B
1.1.7	Immunity to Fast Transients (Burst)	TEC EMI EMC Standard EN/IEC:61000-4-4. Annex-B

1.1.8	Immunity to Radiated RF	TEC EMI EMC Standard EN/IEC:61000-4-3. Annex-B
1.1.9	Immunity to RF Field Induced Conducted Disturbance	TEC EMI EMC Standard EN/IEC:61000-4-6. Annex-B
1.1.10	Immunity to Surges	TEC EMI EMC Standard EN/IEC:61000-4-5. Annex-B
1.1.11	IPV6 Extn Header Parameters	RFC 2460 or RFC 8200 . Annex-P7
1.1.12	IPV6 Header Parameters	RFC 2460 / RFC 8200 . Annex-P7
1.1.13	IT Equipment Safety	IS 13252-1 or IEC:60950-1 or IEC 62368-1. Annex-A1
1.1.14	RTCP Parameters RFC 3551 Set-A	RFC 3551. Annex-P3
1.1.15	RTP Parameters RFC 3550 Set-A	RFC 3550. Annex-P2
1.1.16	SIP Parameters Set-A	RFC 3261. Annex-P1
1.1.17	TCP Parameters	RFC 793. Annex-P11

1.2 Interface 1 : 2 Wire

S.No.	Parameter Name	Standard Name
1.2.1	Idle State Current for 2 wire Int	ETSI EN 300 001 ETSI TBR-21 Cl. 4.4.1. Annex-D
1.2.2	Insulation Test for 2 wire Int	ETSI EN 300 001. Annex-D
1.2.3	Longitudinal Conversion Loss for 2W Int	Q.552 Cl. 2.2.2. Annex-D
1.2.4	Maximum Loop Current for 2W Int	ETSI EN 300 001 ETSI TBR-21 Cl.4.4.3. Annex-D
1.2.5	Return Loss for 2W Int	Q.552 Cl. 2.2.1.2. Annex-D

1.3 Interface 2 : Bluetooth Low Energy

S.No.	Parameter Name	Standard Name
1.3.1	EIRP for BLE Interface	WPC GSR 45(E). Annex-G4 (4.2)
1.3.2	Frequency of Operation for BLE Interface	Latest NFAP. Annex-G4(4.1)
1.3.3	Spurious Emission for BLE Interface	Annex G3

1.4 Interface 3 : Fast Ethernet Electrical

S.No.	Parameter Name	Standard Name
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1.4.1	Link Speed and Autonegotiation Test FE	IEEE 802.3 Annex-H
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1.5 Interface 4 : Gigabit Ethernet Electrical

S.No.	Parameter Name	Standard Name
1.5.1	Link Speed and Autonegotiation Test GE	IEEE 802.3. Annex-H

1.6 Interface 5 : WiFi

S.No.	Parameter Name	Standard Name
1.6.1	2.4 GHz WiFi Radio Conformance	ETSI EN 300 328 or FCC CFR47 pt 15.247 or FCC CFR47 pt 15.249. Annex-G3
1.6.2	5 GHz WiFi Radio Conformance	ETSI EN 301 893 or FCC CFR47 pt 15.407 or FCC CFR47 pt 15.249. Annex-G3
1.6.3	EIRP for Wifi Interface	Latest NFAP and GSRs issued by DoT WPC. Annex-G2
1.6.4	Frequency for WiFi equipments	DoT WPC GSR No. 45(E) 1048(E). Annex-G1