

अनिवार्य आवश्यकताएँ

संख्या : TEC34622108

Essential Requirements

ER No. : TEC34622108

IP Multimedia Conferencing Equipment

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Government of India

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Essential Requirements for:

IP Multimedia Conferencing Equipment

Certification Scheme: **GCS**

Product Fee Group: **B**

The ER is applicable for both Radio Multimedia Conferencing Equipment and Wired Multimedia Conferencing Equipment

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. IP Multimedia Conferencing Equipment

1. Variant 1 : IP Multimedia Conferencing Equipment

1.1 Parameters Linked with Product Variant

S.No.	Parameter Name	Standard Name
1.1.1	Conducted And Radiated Emission - Class A	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	IPV4 Parameters Set-D	RFC 791. Annex-P11
1.1.12	IPV6 as per RFC 2460 or 8200	RFC 2460 or 8200. Annex-P11
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 : 1 G Optical Ethernet

S.No.	Parameter Name	Standard Name
1.2.1	Average Launch power for 1 GE Opt	IEEE 802.3z Cl. 38. Annex-H
1.2.2	Receiver Sensitivity 1 GE Opt	IEEE 802.3z Cl. 38. Annex-H
1.2.3	Wavelength for 1 GE Opt	IEEE 802.3z Cl. 38. Annex-H

1.3 Interface 2 : 10 100 1000 BASE-T Ethernet

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

1.4 Interface 3 : 10 100 BASE-T Ethernet

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

1.5 Interface 4 : 10 G Optical Ethernet

S.No.	Parameter Name	Standard Name
1.5.1	Average Launch power for 10 GE Opt	IEEE 802.3ae Cl. 52. Annex-H
1.5.2	Receiver Sensitivity 10 GE Opt	IEEE 802.3ae Cl. 52. Annex-H

1.5.3	Wavelength for 10 GE Opt	IEEE 802.3ae Cl. 52. Annex-H
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1.6 Interface 5 : Fast Ethernet Optical

S.No.	Parameter Name	Standard Name
1.6.1	Average Launch power for FE Opt	IEEE 802.3u. Annex-H
1.6.2	Receiver Sensitivity for FE Opt	IEEE 802.3u. Annex-H
1.6.3	Wavelength for FE Opt	IEEE 802.3u. Annex-H

1.7 Interface 6 : LTE or LTE-A

S.No.	Parameter Name	Standard Name
1.7.1	Int Parameters for LTE or LTE-A	3GPP TS 36.521-1 or EN 301 908-13. Annex-F12
1.7.2	Operating Frequency for LTE or LTE-A Int	NFAP. Annex-F

1.8 Interface 7 : WCDMA or HSPA

S.No.	Parameter Name	Standard Name
1.8.1	Operating Frequency for WCDMA or HSPA Int	NFAP. Annex-F
1.8.2	WCDMA or HSPA Int Parameters	3GPP TS 34.121-1 or EN 301 908-2. Annex-F11

1.9 Interface 8 : WiFi

S.No.	Parameter Name	Standard Name
1.9.1	2.4 GHz WiFi Radio Conformance	ETSI EN 300 328 or FCC CFR47 pt 15.247 or FCC CFR47 pt 15.249. Annex-G3
1.9.2	5 GHz WiFi Radio Conformance	ETSI EN 301 893 or FCC CFR47 pt 15.407 or FCC CFR47 pt 15.249. Annex-G3
1.9.3	EIRP for Wifi Interface	Latest NFAP and GSRs issued by DoT WPC. Annex-G2
1.9.4	Frequency for WiFi equipments	DoT WPC GSR No. 45(E) 1048(E). Annex-G1