

अनिवार्य आवश्यकतायें

संख्या: TEMP1620891425196

Essential Requirements

ER No.: TEMP1620891425196

Commercial Off The Shelf Server

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Essential Requirements for:

Commercial Off The Shelf Server

Certification Scheme: **GCS**

Product Fee Group: **B**

Essential Requirements for Servers including Commercial Off the Shelf (COTS) Servers, Cloud based Servers

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. COTS Server

1. Variant 1 : COTS Server

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	Conducted And Radiated Emission - Class B	TEC EMI EMC Standard CISPR 22/32 EN55022/32. Annex-B
1.1.3	Immunity to Electrostatic Discharge	TEC EMI EMC Standard EN/IEC:61000-4-2. Annex-B
1.1.4	Immunity to Radiated RF	TEC EMI EMC Standard EN/IEC:61000-4-3. Annex-B
1.1.5	Immunity to Fast Transients (Burst)	TEC EMI EMC Standard EN/IEC:61000-4-4. Annex-B
1.1.6	Immunity to Surges	TEC EMI EMC Standard EN/IEC:61000-4-5. Annex-B
1.1.7	Immunity to RF Field Induced Conducted	TEC EMI EMC Standard EN/IEC:61000-4-6.

	Disturbance	Annex-B
1.1.8	Immunity to AC Voltage Dips and Short Interruptions	TEC EMI EMC Standard EN/IEC:61000-4-11. Annex-B
1.1.9	Immunity to DC Voltage Dips and Short Interruptions	EN/IEC:61000-4-29. Annex-B
1.1.10	IPV6 Complete Suite	RFC 2460 or 8200 4861 4862 1981 4443 Annex-P11
1.1.11	IT Equipment Safety	IS 13252-1 or IEC:60950-1 or IEC 62368-1. Annex-A1
1.1.12	IPv6 Dual Stack as per RFC 4213	RFC 4213 clause 2.1 and 2.2. Annex-P6
1.1.13	Energy Consumption Rating (ECR)	TEC ECR Standard No. TEC 74046:2020 Table 6
1.1.14	Energy Passport (EP)	TEC ECR Standard No. TEC 74046:2020 Clause 4.8

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 G Optical Ethernet

S.No.	Parameter Name	Standard Name
1.3.1	Average Launch power for 10 GE Opt	IEEE 802.3ae Cl. 52. Annex-H
1.3.2	Receiver Sensitivity 10 GE Opt	IEEE 802.3ae Cl. 52. Annex-H
1.3.3	Wavelength for 10 GE Opt	IEEE 802.3ae Cl. 52. Annex-H

1.4 Interface 3 : 10 100 1000 BASE-T Ethernet

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

1.5 Interface 4 : 10 100 BASE-T Ethernet

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

1.6 Interface 5 : 25G Optical Ethernet

S.No.	Parameter Name	Standard Name
1.6.1	Average Launch power for 25 GE Opt	IEEE802.3 ed 2018 CL.114
1.6.2	Receiver Sensitivity 25 GE Opt	IEEE802.3 ed 2018 CL.114
1.6.3	Wavelength for 25 GE Opt	IEEE802.3 ed 2018 CL.114