

अनिवार्य आवश्यकताएँ

संख्या : TEC30012110

Essential Requirements

ER No. : TEC30012110

Infiniband Switch

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MTCTE के तहत जारी:

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दूरसंचार अभियांत्रिकी केंद्र

भारत सरकार

खुर्शीद लाल भवन, जनपथ, नई दिल्ली - 110001, भारत

Telecommunication Engineering Centre

Government of India

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

Essential Requirements for:

Infiniband Switch

Certification Scheme: **GCS**

Product Fee Group: **C**

Infiniband Switch

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. Infiniband Switch

1. Variant 1 : Infiniband Switch

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 AC Voltage Dips and Short Interruptions	TEC EMI EMC Standard EN/IEC:61000-4-11. Annex-B
1.1.4	Immunity to DC Voltage Dips and Short Interruptions	EN/IEC:61000-4-29. Annex-B
1.1.5	Immunity to Electrostatic Discharge	TEC EMI EMC Standard EN/IEC:61000-4-2. Annex-B
1.1.6	Immunity to Fast Transients (Burst)	TEC EMI EMC Standard EN/IEC:61000-4-4. Annex-B
1.1.7	Immunity to Radiated RF	TEC EMI EMC Standard EN/IEC:61000-4-3.

		Annex-B
1.1.8	Immunity to RF Field Induced Conducted Disturbance	TEC EMI EMC Standard EN/IEC:61000-4-6. Annex-B
1.1.9	Immunity to Surges	TEC EMI EMC Standard EN/IEC:61000-4-5. Annex-B
1.1.10	IT Equipment Safety	IS 13252-1 or IEC:60950-1 or IEC 62368-1. Annex-A1
1.1.11	Mac Learning and Packet Forwarding	Annex-P11
1.1.12	Manageability SNMP V2 or V3	RFC 3410 3416 Annex-P11
1.1.13	Spanning Tree Protocol	IEEE 802.1d. 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

1.6 Interface 5 : 100 G Optical Ethernet

S.No.	Parameter Name	Standard Name
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1.6.1	Average Launch power for 100 GE Opt	IEEE 802.3ba Cl. 86 88. Annex-H
1.6.2	Receiver Sensitivity 100 GE Opt	IEEE 802.3ba Cl. 86 88. Annex-H
1.6.3	Wavelength for 100 GE Opt	IEEE 802.3ba Cl. 86 88. Annex-H

1.7 Interface 6 : 200 G BASE-X Ethernet

S.No.	Parameter Name	Standard Name
1.7.1	Average Launch Power for 200 GE Opt	IEEE 802.3cn Cl 121 Cl 122
1.7.2	Receiver Sensitivity for 200 GE Opt	IEEE 802.3cn Cl 121 Cl 122
1.7.3	Wavelength for 200 GE Opt	IEEE 802.3cn Cl 121 Cl 122

1.8 Interface 7 : 25 G Optical Ethernet

S.No.	Parameter Name	Standard Name
1.8.1	Average Launch Power for 25 GE Opt	IEEE 802.3 - 2018 Cl. 114
1.8.2	Receiver Sensitivity for 25 GE Opt	IEEE 802.3 - 2018 Cl. 114
1.8.3	Wavelength for 25 GE Opt	IEEE 802.3 - 2018 Cl. 114

1.9 Interface 8 : 40 G Optical Ethernet

S.No.	Parameter Name	Standard Name
1.9.1	Average Launch power for 40 GE Opt	IEEE 802.3ba Cl. 86 87. Annex-H
1.9.2	Receiver Sensitivity 40 GE Opt	IEEE 802.3ba Cl. 86 87. Annex-H
1.9.3	Wavelength for 40 GE Opt	IEEE 802.3ba Cl. 86 87. Annex-H

1.10 Interface 9 : 400 G BASE-X Ethernet

S.No.	Parameter Name	Standard Name
1.10.1	Average Launch Power for 400 GE Opt	IEEE 802.3cn Cl 122 Cl 124
1.10.2	Receiver Sensitivity for 400 GE Opt	IEEE 802.3cn Cl 122 Cl 124
1.10.3	Wavelength for 400 GE Opt	IEEE 802.3cn Cl 122 Cl 124

1.11 Interface 10 : Fast Ethernet Optical

S.No.	Parameter Name	Standard Name
1.11.1	Average Launch power for FE Opt	IEEE 802.3u. Annex-H
1.11.2	Receiver Sensitivity for FE Opt	IEEE 802.3u. Annex-H

1.11.3

Wavelength for FE Opt

IEEE 802.3u. Annex-H