

अनिवार्य आवश्यकताएँ

संख्या : TEC67292002

Essential Requirements

ER No. : TEC67292002

Private Automatic Branch Exchange

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Government of India

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Essential Requirements for:

Private Automatic Branch Exchange

Certification Scheme: **GCS**

Product Fee Group: **B**

This ER covers all types of Private Automatic Branch Exchanges

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. Private Automatic Branch Exchange

1. Variant 1 : Private Automatic Branch Exchange

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	Immunity to AC Voltage Dips and Short Interruptions	TEC EMI EMC Standard EN/IEC:61000-4-11. Annex-B
1.1.3	Immunity to DC Voltage Dips and Short Interruptions	EN/IEC:61000-4-29. Annex-B
1.1.4	Immunity to Electrostatic Discharge	TEC EMI EMC Standard EN/IEC:61000-4-2. 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 Radiated RF	TEC EMI EMC Standard EN/IEC:61000-4-3. 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 Surges	TEC EMI EMC Standard EN/IEC:61000-4-5. Annex-B
1.1.9	IT Equipment Safety	IS 13252-1 or IEC:60950-1 or IEC 62368-1. Annex-A1

1.2 Interface 1 : 2 Wire Trunk

S.No.	Parameter Name	Standard Name
1.2.1	Current on Junction or Trunk line	Annex-D
1.2.2	DC Resistance	ETSI TBR-21 Annex-D
1.2.3	Longitudinal Conversion Loss for 2W Trunk Int	Q.552 Cl 2.2.2 Annex- D
1.2.4	Resistance to Earth	ETSI TBR-21 Annex-D
1.2.5	Return Loss for 2 W Trunk Int	Q.552 Cl 2.2.1.2 Annex-D
1.2.6	Transmission of DTMF signalling	Q.23 Cl. 6 and 7. Annex-D

1.3 Interface 2 : Fast Ethernet Electrical (for PABX)

S.No.	Parameter Name	Standard Name
1.3.1	DTMF Parameters Set-C	RFC 4733. Annex-P8
1.3.2	IPV4 Parameters Set-A	RFC 791. Annex-P6
1.3.3	Link Speed and Autonegotiation Test FE	IEEE 802.3 Annex-H
1.3.4	RTP Parameters RFC 3550 Set-A	RFC 3550. Annex-P2
1.3.5	SIP Parameters Set-A	RFC 3261. Annex-P1
1.3.6	TCP Parameters	RFC 793. Annex-P11
1.3.7	UDP Parameters	RFC 768. Annex-P5

1.4 Interface 3 : Gigabit Ethernet Electrical (for PABX)

S.No.	Parameter Name	Standard Name
1.4.1	DTMF Parameters Set-C	RFC 4733. Annex-P8
1.4.2	IPV4 Parameters Set-A	RFC 791. Annex-P6
1.4.3	Link Speed and Autonegotiation Test GE	IEEE 802.3. Annex-H
1.4.4	RTP Parameters RFC 3550 Set-A	RFC 3550. Annex-P2

1.4.5	SIP Parameters Set-A	RFC 3261. Annex-P1
1.4.6	TCP Parameters	RFC 793. Annex-P11
1.4.7	UDP Parameters	RFC 768. Annex-P5

1.5 Interface 4 : ISDN PRI

S.No.	Parameter Name	Standard Name
1.5.1	Bit Rate Tolerance for PRI	G.703 Cl. 11.1 ETSI TBR-4 Cl. 9.2.3. Annex-I
1.5.2	Input Jitter Tolerance for PRI	G.823 I.431 ETSI TBR-4. Annex-I
1.5.3	Input Return Loss for PRI	G.703 Cl. 11.3 ETSI TBR-4 Cl. 9.3.1. Annex-I
1.5.4	Layer-III PRI Specification - Call Clearing	Q.931. Annex-D1
1.5.5	Layer-III PRI Specification - Call Setup	Q.931. Annex-D1
1.5.6	Output Jitter for PRI	G.823 I.431 ETSI TBR-4. Annex-I
1.5.7	Pulse Mask for PRI	G.703 Cl. 11.2 ETSI TBR-4 Cl. 9.2.1. Annex-I