

अनिवार्य आवश्यकतायें  
संख्या: TEC16631906

Essential Requirement  
ER No.: TEC16631906

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Modem

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## Essential Requirements for:

# Modem

Certification Scheme: **SCS**

Product Fee Group: **A**

This ER covers all types of Data Modem connectable on 2-wire Analog Line

This product has the following variants:

- 1 V.90/ V92/ V21 to V34 Modem

### Variant 1 : V.90/ V92/ V21 to V34 Modem

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#### Mandatory Parameters

Parameter Name	Standard Name
IT Equipment Safety	IS 13252. IEC:60950-1 or IEC 62368 Annex-A1
Conducted And Radiated Emission - Class B	TEC EMI EMC Standard, CISPR 22/32, EN55022/32. Annex-B
Immunity to Electrostatic Discharge	TEC EMI EMC Standard, EN/IEC:61000-4-2. Annex-B
Immunity to Radiated RF	TEC EMI EMC Standard, EN/IEC:61000-4-3. Annex-B
Immunity to Fast Transients (Burst)	TEC EMI EMC Standard, EN/IEC:61000-4-4. Annex-B
Immunity to Surges	TEC EMI EMC Standard, EN/IEC:61000-4-5. Annex-B
Immunity to RF Field Induced Conducted Disturbance	TEC EMI EMC Standard, EN/IEC:61000-4-6. Annex-B
Immunity to AC Voltage Dips and Short Interruptions	TEC EMI EMC Standard, EN/IEC:61000-4-11. Annex-B
Immunity to DC Voltage Dips and Short Interruptions	EN/IEC:61000-4-29. Annex-B
Over Voltage Current Protection on 2W	K.21. Annex-D
Modem Receiver Signal	V.34 (para 6.6). Annex-D
Modem Transmit Power	T.4 (-3dBm to -15 dbm). Annex-D

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#### Mandatory Parameters if interface selected: 2 Wire

Parameter Name	Standard Name
Idle State Current for 2 wire Int	ETSI EN 300 001, ETSI TBR-21 Cl. 4.4.1. Annex-D
Insulation Test for 2 wire Int	ETSI EN 300 001. Annex-D
Longitudinal Conversion Loss for 2W Int	Q.552 Cl. 2.2.2. Annex-D
Maximum Loop Current for 2W Int	ETSI EN 300 001, ETSI TBR-21 Cl.4.4.3. Annex-D
Return Loss for 2W Int	Q.552 Cl. 2.2.1.2. Annex-D

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**Mandatory Parameters if interface selected: ISDN BRI**

<b>Parameter Name</b>	<b>Standard Name</b>
Layer-III BRI Specification - Call Setup	Q.931. Annex-D1
Layer-III BRI Specification - Call Clearing	Q.931. Annex-D1