

अनिवार्य आवश्यकताएँ

संख्या : TEC67472407

Essential Requirements

ER No. : TEC67472407

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IP Terminal

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MTCTE के तहत जारी:

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Telecommunication Engineering Centre

Government of India

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

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## Essential Requirements for:

### IP Terminal

Certification Scheme: **SCS**

Product Fee Group: **B**

This ER covers all types of SIP Terminals

*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. SIP Terminal

##### 1. Variant 1 : SIP Terminal

##### 1.1 Parameters Linked with Product Variant

| S.No. | Parameter Name                                      | Standard Name                                   |
|-------|-----------------------------------------------------|-------------------------------------------------|
| 1.1.1 | Conducted And Radiated Emission - Class B           | TEC EMI EMC Standard CISPR 32 EN55032. 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 | IPV6 Header Parameters                             | RFC 2460 / RFC 8200 . Annex-P7                     |
| 1.1.12 | IT Equipment Safety                                | IS 13252-1 or IEC:60950-1 or IEC 62368-1. Annex-A1 |
| 1.1.13 | RTCP Parameters RFC 3551 Set-A                     | RFC 3551. Annex-P3                                 |
| 1.1.14 | RTP Parameters RFC 3550 Set-A                      | RFC 3550. Annex-P2                                 |
| 1.1.15 | SIP Parameters Set-A                               | RFC 3261. Annex-P1                                 |
| 1.1.16 | TCP Parameters                                     | RFC 793. Annex-P11                                 |

## 1.2 Interface 1 : 10 100 1000 BASE-T Ethernet

| S.No. | Parameter Name                         | Standard Name       |
|-------|----------------------------------------|---------------------|
| 1.2.1 | Link Speed and Autonegotiation Test GE | IEEE 802.3. Annex-H |

## 1.3 Interface 2 : 10 100 BASE-T Ethernet

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

## 1.4 Interface 3 : 1 G Optical Ethernet

| S.No. | Parameter Name                    | Standard Name               |
|-------|-----------------------------------|-----------------------------|
| 1.4.1 | Average Launch power for 1 GE Opt | IEEE 802.3z Cl. 38. Annex-H |
| 1.4.2 | Receiver Sensitivity 1 GE Opt     | IEEE 802.3z Cl. 38. Annex-H |
| 1.4.3 | Wavelength for 1 GE Opt           | IEEE 802.3z Cl. 38. Annex-H |

## Annexure I

Comments on draft standards for Essential Requirements(ER) “IP Terminal (ER No. TEC67472407)”

Name:

Organisation:

Contact Details:

| S.No | Clause No | Clause | Comments | Other Remarks(if any) |
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