



Description:

The ITT-MU8597 (TDMoIP-16E1) is mainly used to transmit voice signal over IP network. It has 8*E1 interface, 2 UTP Ethernet port and 1*fiber Ethernet port. TDMoIP-16E can connect TDM device and user's low cost wireless or lineate Ethernet/IP configuration, without affecting the voice quantity. assures connecting to physical E1 interface of any device seamlessly, such as PBX, mobile base station, SS7 signaling device and voice mail system. It can be used in the communication system based on E1, such as LAN, WAN, MAN and wireless network.

Providing emulation E1 channel through Ethernet, the difficulty is rebuilding timing information of E1 code stream effectively at the exit of network. The special disadvantages of Ethernet itself, such as random packet delay, without effective timing transmit mechanism, transmission error or collision that brings on packet lose, must be conquered. Our company resolves the difficulties above faultlessly through availing ourselves of technical advantage and adapting advanced clock disposal technology. TDMoIP-16E encapsulates the date of E1 code stream to the packet and transmits it to the remote device through Ethernet.

◆ E1 Interface

- Interface Standard: comply with protocol G.703;
- Interface Rate: $n*64\text{Kbps} \pm 50\text{ppm}$;
- Interface Code: HDB3;
- E1 Impedance: 75Ω (unbalance), 120Ω (balance);
- Jitter tolerance: In accord with protocol G.742 and G.823
- Allowed Attenuation: 0~6dBm

◆ Ethernet interface(10/100M)

- Interface rate:10/100 Mbps, half/full duplex auto-negotiation
- Interface Standard: Compatible with IEEE 802.3, IEEE 802.1Q (VLAN)
- MAC Address Capability: 4096
- Connector: RJ45, support Auto-MDIX

Features:

- Based on self -copyright IC
- To achieve Ethernet data transparent transmission in 1-8E1 circuits
- Can realize the local and the remote device reset
- Ethernet Interface is 100BASE-FX, support VLAN protocol
- Inter-set dynamic Ethernet MAC address (4,096) with local data frame filtering function
- Single Channel lines rate is 1984Kbit/s, 4Channel Bandwidth is up to 7936Kbit/s
- Support all set of Ethernet Work Mode
- CRC automatic alarm threshold can be set to isolate the poor quality transmission lines and cut off a single-direction. When 2M branch circuit one direction error rate exceeds threshold, cutting off this direction the other direction is not affected; that is to say, both of the Ethernetdirection transmission can be asymmetric
- Allow 16Channel E1 transmission time delay difference 100ms. When the margin exceed the allowed range, the system can automatically stop on the E1 that time delay is too large to send data
- E1 interface conform to ITU-T G.703, G.704 and G.823, not support the use of signal timeslot
- E1 interface module with inter-set clock recovery circuit and HDB3 code circuit
- Support E1 channel hot-plug in the device, and automatically detects the effective
- channel and will not interrupt data transmission
- Can support 1-8Channel E1 channel configuration, can automatically detect the number of E1 and select the E1 available

◆ Working environment

- Working temperature: -10°C ~ 50°C
- Working Humidity: 5%~95 % (no condensation)
- Storage temperature: -40°C ~ 80°C
- Storage Humidity: 5%~95 % (no condensation)

Technical Parameters:

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| • Port Description | ➤ 16E1 interface; 4*FE Interface |
| • Description | ➤ Achieve 16E1 turn convert the Ethernet interface, the bandwidth 16.384M, adaptive, support VLAN, 19-inch rack, -48V or AC220V power supply (optional) |
| • Power | ➤ Power supply: AC180V ~ 260V; DC -48V; DC +24V ➤ Power consumption: ≤10W |
| • Dimension | ➤ Product Size: 19 inch 1U 483X138X44mm (WDXDH) |
| • Weight | ➤ 2.0KG |

