

## i-Net Networks E1 Converter



### Feature

- Semi/full duplex self adapt, support VLAN
- RJ45 interface support auto MDI/MDI-X
- Provides E1 master clock and E1 line clock
- Provides triple loop functions
- Provides pseudo random code test function
- Supports 75Ω unbalance and 120Ω balance
- Ethernet monitoring and self-reset function
- Provide detecting real time Ethernet communication status
- Easy the installation and maintenance

### Technical

E1 interface parameter:

- Channel capacity: 1 Channel
- Interface rate: Nx64Kbps, N=0~31
- Bit Rate: 2.048 Mb/s  $\pm 50$ ppm
- Line Code: HDB3
- Line Impedance: 120Ω/75Ω
- Connector: RJ-45 or BNC
- Pulse Shape: ITU-T G.703
- Jitter Performance: ITU-T G.823
- clock: inter-clock, line-clock
- Output jitter<0.05UI

Ethernet interface parameter:

- Interface Rate: 10/100Mbps
- Duplex: half and full duplex self-adapt.
- Interface character: match IEEE802.3, IEEE802.1Q (VLAN)
- Connector: RJ45, support auto MDI/MDI-X
- MAC address capability: 4,096

### Description

The E1 to Ethernet converter provides easy conversion from ITU -T G.703 E1 channel to Ethernet interface. This is widely used in connecting between WAN and LAN, monitoring, etc. The Ethernet interface is 10/100Mbps auto negotiation and functions both in full/half duplex. The E1 is transparent and in full rate, which can support the E1 unframed mode, including fractional E1 per request.

A cost effective solution for using existing E1 leased lines for transparent Ethernet service. Local management of the device E1 to Ethernet Converter is provided via DIP switches. Front panel LEDs monitor the G.703 link, Ethernet LAN and serial ports for status and Loss of Sync. T

The device is a compact G.703 access converter provides E1/2.048Mbps network termination as well as serial or ethernet LAN interface conversion in a standalone or rack mount package. The device terminates the G.703 Telco interface and converts the data for transmission to a user-oriented 10BaseT interface.

Power:

- DC: -48V (-36 to -72V), +24 V (Optional)
- AC: 220 VAC 60Hz
- Power Interface: DC power terminal/AC socket
- Power Consumption: 8W maximum

Environment:

- Operating temperature: 0°C to +50°C
- Storage temperature: -20°C to +70°C
- Relative humidity: 5% to 90% (non-condensing)

Dimension:

140mm(D) x 210mm(W) x 40mm(H)

### Ordering

MC-E1-ETH-AC i-Net Networks E1 Converter 2048Kbps to 10/100Base-T, VLAN, AC 110/220V

AC AC 110/220V, DC-DC 48V