

### Proscend 500

**Ethernet over E1 Converters / Adapters**  
**Ethernet over Serial Converters / Adapters**

#### *Features*

Proscend 500 have two functions:  
**Ethernet over E1 converter** and  
**Ethernet over Serial converter.**

##### [Ethernet over E1 converter]

The Ethernet over E1 converter offers a channelized E1 and 10/100Base-T interface conversion. It can provide the user with Ethernet over E1 conversion enabling the user to transport Ethernet data over an E1 link. It converts the Ethernet data into E1 frame format for transmission over the existing TDM (E1) links and then re-converts the E1 back into Ethernet data the far-end terminal. The device can effectively utilize the redundant bandwidth of telecom operators existing TDM network to transport Ethernet data with low investment. It can enable you to do as:

- (1) Bridging Ethernet LANs over existing TDM (E1) telecom network
- (2) Extending Ethernet networks utilizing TDM (E1) landline based telecom infrastructure  
Using telecom network of E1s/PDH/SDH microwave etc. carrying E1s to transport Ethernet data

##### [Ethernet over Serial converter]

The Ethernet over Serial converters connect serial based equipment across an Ethernet network. Serial data sent and received on serial ports on the serial to Ethernet adapter are encapsulated in Ethernet packets in a manner that best fits the type of data being transported. It can enable you to do as:

- (1) Serial cable replacement using Ethernet
- (2) Bridging Ethernet LANs over existing Serial network
- (3) A pair of this device can offer a cost effective solution for using existing V.35 leased lines for transparent Ethernet service.



## **Specification**

### **E1 (G.703) interface**

- Framing : Unframed/PCM30/PCM31
- Bit rate : 2048 Mbps (Full-Duplex)
- Line code : AMI/HDB3
- Line impedance : unbalanced 75 ohm(BNC) for coaxial cable or  
balanced 120 ohm(RJ-48C) for twisted pair
- Complies with ITU-T G.703, G.706, G.732 and G.823
- Pulse Amplitude : Nominal 2.37V for Coaxial Pair 75 ohm  
Nominal 3.00V for Symmetrical Pair 120 Ohm
- CRC Check : CRC-4 or Non CRC

### **Serial (V.35) interface**

- Connection: DB-25(F)
- Connection: M.34 (Optional)
- Support RS-530, V.35 or V.36/X.21

### **Ethernet interface**

- 10/100Mbps Half/Full Duplex, Auto-sensing, Auto-Crossover
- Up to 2048 MAC address learning
- Connection: RJ-45 for Ethernet cable

### **Management**

- Configuration with 4 keypads and 16 x 2 LCD display
- Console port (RJ45, RS232C)
- Support firmware upgradeable through console port

### **Loopback Tests**

- CSU Loopback
- DSU Loopback
- V.54 Loopback
- Build-in 2047 Test pattern & BER Tester

### **Clock Mode**

- Internal Clock
- External Clock

### **Physical/Electrical**

- AC/DC adaptor Input: 100~240VAC @ 50~60Hz / 5VDC 2A
- Power Consumption: 12W Max
- Operation temperature: 0 to 50°C
- Humidity: Up to 95% (non-condensing)