

E1 NTU Series Eoe-1



Single-Port 10/ 100 Base Ethernet Over G.703 Unframed E1 Access Unit

The EOe-1 is a Channel Service Unit for unframed ITU-T G.703 E1 that features a built-in Ethernet bridge. The CSU has a built-in Network Terminating Unit (NTU) and may connect to either 75 Ohm unbalanced, unframed E1 via coaxial cable and BNC connectors or to 120 Ohm balanced, unframed E1 via twisted pairs and a shielded RJ-45 connector. The EOe-1 Ethernet Bridge uses HDLC encapsulation to transport Ethernet packets across the WAN and supports 10/100 auto-negotiation or manual settings for 10M, 100M, Full or Half Duplex Ethernet.

The Ethernet port also supports a standard auto-MDIX feature that will completely eliminate Ethernet cross-over cables or the guessing that is sometimes involved in choosing a cable when connecting to a HUB or a PC. The EOe-1 is very easy to configure by using simple DIP switch settings. Both the E1 and Ethernet Bridge configuration settings require only two 8-pole DIP switches. Once configured and set, the EOe-1 requires no further adjustments.

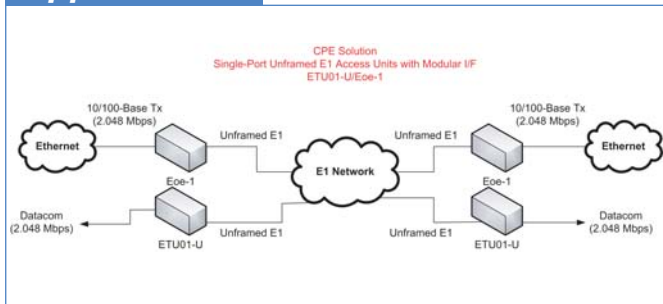
Features

- Terminates Unframed E1 service
- 10BASE-T/100BASE-TX, Full Duplex or Half Duplex
- Automatic address learning, aging and deletion after 5 minutes
- Auto padding of undersized packets to meet the minimum Ethernet packet size requirement
- Buffering modes can be selected according to the setting of WAN and LAN line speeds
- Ethernet interface has automatic Twisted Pair polarity correction
- Forwarding and filtering rate at WAN speed with 2.048Mbps throughput latency of 1 frame
- HP Auto-MDI/MDIX detects and corrects crossed cable
- Real-time filtering with 256 address tables
- Up to 340 packet-buffering capacity

Specifications

G.703 E1 Specifications		
Framing	Unframed	
Bit rate	2.048Mbps	
Line code	AMI/ HDB3	
Line Impedance	75 ohm(BNC)/ 120 ohm(DB-15, RJ-45)	
Relative receive level	0 to -43dB	
Transmit level	Pulse amplitude	Nominal 2.37V ±10% for 75ohm Nominal 3.00V ±10% for 120ohm
	Zero amplitude	±0.1V
	Jitter performance	According to ITU-T G.823
connectors	BNC(unbalanced), RJ-45 (balanced)	
Clock modes	Clock mode 0 (DCE1)	Receive and transmit clock (recovered) to the synchronous DTE
	Clock mode 1 (DCE2)	Receive and transmit clock (internal oscillator) to the synchronous DTE
Control signals	CTS constantly ON, DSR constantly ON,except during test loops DCD constantly ON or follows RTS,except during signal loss	
Test switches/Diagnostics	Digital local loopback, Analog local loopback,Digital remote loopback, Test pattern	
Compliance	ITU-T G.703, G.706 and G.732	
Ethernet Specifications		
Standard	IEEE 802.3/ 802.3u	
Connector	RJ45	
Data Rate	10/100Mbps; Half Duplex 20/200Mbps; Full duplex	
Filtering and Forwarding	90,000 packets/sec	
Delay	1 frame	
Frame Buffer	340 frames	
MAC Table	256 MAC address	
General Specifications		
Connector	RJ45	
Speeds	10BASE-T/100BASE-TX, Full or Half Duplex	
Protocol	Synchronous HDLC	
Power	AC	90 — 250 VAC
	DC	18 — 72 VDC
Environment	Temperature	0 — 50°C (Operating); 0 — 70°C (Storage)
	Humidity	10 — 90% non condensing
Power Consumption	20W	
LEDs	PWR, Signal Loss, Alarm, Link, TD, RD, 100, Full, Error, Error, Test	
Dimensions(WxDxH)	195mm x 250mm x 45mm	
Weight	1.5kg	

Application



Ordering Info

EOe-1/AC	AC power input (90 — 250VAC)
EOe-1/DC	DC power input (18 — 72VDC)