



## Eoe1A

### Ethernet over E1 with SNMP Management

The Eoe1A 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, BNC connectors or to 120 Ohm balanced, unframed E1 via twisted pairs and a shielded RJ-45 connector. The Eoe1A 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 Eoe1A is very easy to configure by a menu driven serial console interface. SNMP and proprietary MIB add the ability to manage the Eoe1A centrally through third party network management software or via CTC Union's EMS management system.

### Feature

- Supports 10/100Base-TX Ethernet over Unframed E1
- 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
- Forwarding and filtering rate at WAN speed with throughput latency of 1 frame
- Auto MDI / MDIX
- Real-time filtering with 256 MAC address table
- Supports Console, SNMP and Web management
- Adjustable pay load rates of: 10K, 32K, 64K, 128K, 256K, 512K, 1024K & 2048K

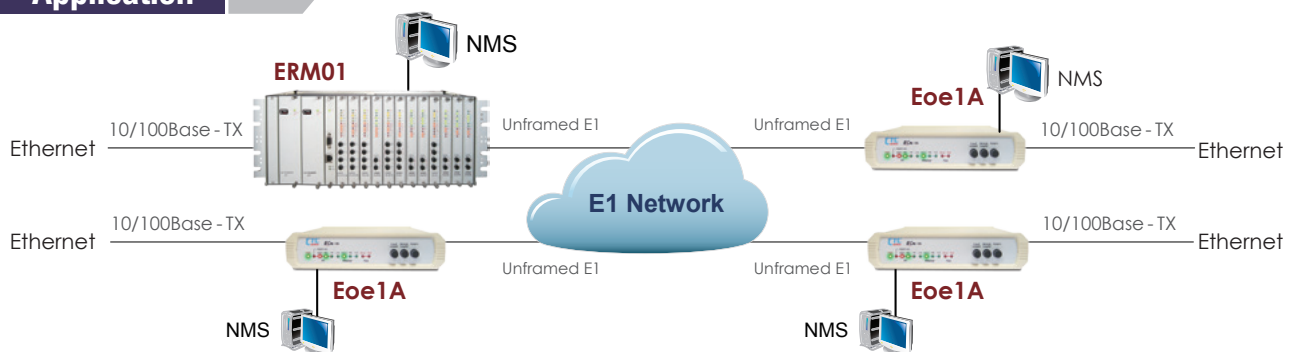
### Specifications

#### G.703 E1 Specifications

<b>Framing</b>	Unframed
<b>Line code</b>	AMI/ HDB3
<b>Bit rate</b>	2.048Mbps (clear channel)
<b>Relative receive level</b>	0 to -43dB
<b>Transmit level</b>	Pulse Nominal 2.37V $\pm 10\%$ for 75ohm Amplitude Nominal 3.00V $\pm 10\%$ for 120ohm Zero amplitude $\pm 0.1V$
<b>Jitter performance</b>	According to ITU-T G.823
<b>Connector</b>	BNC(unbalanced), RJ-48(balanced)
<b>Clock modes</b>	Clock mode 0: Receive & transmit clock (DCE1)(recovered) to the sync DTE Clock mode 1: Receive & transmit clock (DCE2)(internal oscillator) to the sync DTE
<b>Diagnostics</b>	
<b>Test Switches</b>	Digital local loopback, Analog local loopback, Digital local and remote loopback, 2047 Test pattern
<b>Ethernet Specifications</b>	
<b>Connector</b>	RJ-45

<b>Data Rate</b>	10/100Mbps; Half Duplex / 20/ 200Mbps; Full duplex
<b>Filtering &amp; Forwarding</b>	90,000 packets/sec
<b>Delay</b>	1 frame
<b>Frame Buffer</b>	340 frames
<b>MAC Table</b>	256 MAC address
<b>Protocols</b>	Synchronous HDLC
<b>Indications</b>	LEDs (Power, Signal Loss, Alarm, Link, TD, RD, 100, Full, Error, Error, Test)
<b>Standards</b>	ITU-T G.703, G.706 and G.732, IEEE 802.3/802.3u
<b>Management</b>	Console, Web, SNMP
<b>Power Input</b>	AC: 90-250VAC ; DC: 18-72 VCD
<b>Power Consumption</b>	20W
<b>Dimensions</b>	250 x 195 x 45mm (D x W x H)
<b>Weight</b>	1.5kg
<b>Temperature</b>	0°C ~ 50°C (Operating), -10°C ~ 70°C (Storage)
<b>Humidity</b>	10 ~ 90% non-condensing
<b>Certification</b>	CE, FCC
<b>MTBF</b>	57,000 hrs

### Application



### Ordering Information

Model Name	Description
Eoe1A/AC	1U half 19" Ethernet over unframed E1 SNMP with AC power (100 ~ 240V)
Eoe1A/DC	1U half 19" Ethernet over unframed E1 SNMP with DC power (18 ~ 75V)
Eoe1A/AD	1U half 19" Ethernet over unframed E1SNMP with AC (100~240V) and DC (18 ~ 75V)

Power Type  
**Eoe1A** – ☐ ☐  
 Example: Eoe1A – AD