Managed E1/T1
access unit

ETU01A

Single Port Modular E1 CSU/DSU with LCD and SNMP

The ETU01A single port stand-alone CSU/DSU provides our best digital access solution for E1 and Fractional E1 network services termination. A DTE device may be linked to an ETU01A at data rates of 56Kbps to 2048Kbps. The ETU01A features user replaceable dataport modules for a number of interface standards; including Ethernet bridge, router, V.35, X.21, RS-530, RS-449, G.703 64Kbps Co-directional and RS-232. The ETU01A supports local control and diagnostics via LCD display, keypad and LED status indicators located on the front panel as well as via a menu driven RS-232 console port in conjunction with a standard terminal.

These features enable users to easily configure the unit, execute the in-service diagnostics and monitor the network status. The ETU01A provides optional SNMP (Simple Network Management Protocol), which allows the user to remotely control, diagnose and monitor the system using industry standard SNMP protocol, our proprietary MIB and any network management software.
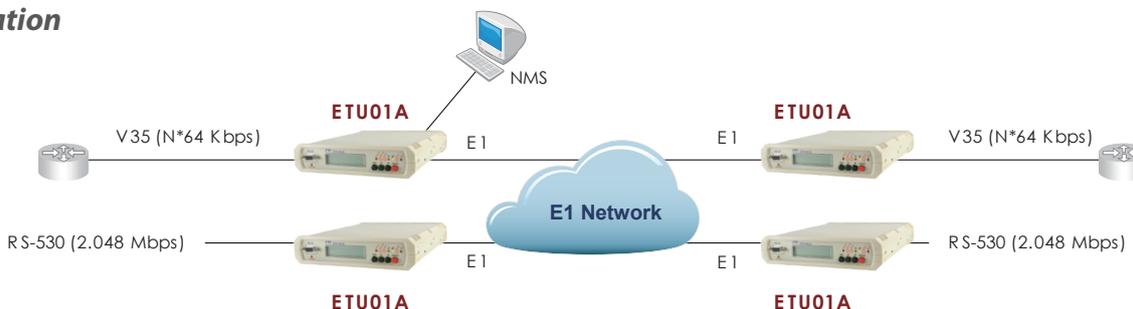
Features

- Supports Fractional E1 and Unframed E1 service with EOC control
- Removable interfaces, support V.35, X.21, RS-530, RS-449, RS-232, G.703 Co-directional, NRZ, Ethernet Bridge and Router
- I/O connectors on rear panel
- Multiple clock source selection (Internal or External: E1 recovery, DTE or DCE)

- Supports Console, Telnet and SNMP management
- Menu keys and LCD display
- SNMP V1, V2C, V3 supported
- Supported by Smart View EMS
- Built-in BERT with V.54 diagnostic capabilities for performing local and remote loopback

Specifications

G.703 E1		
Framing	Framed CCS (PCM31) CAS (PCM30) / Unframed CRC4 on/off	
Line Code	AMI/ HDB3	
LCD display	16*2 character LCD with	
Bit rate	backlight N*56K or N*64Kbps, where N=1~31 in CCS or 1~30 in CAS	
Relative receive level	0 to -43dB	
Transmit level:		
Pulse	Nominal 2.37V ±10% for 75ohm	
Amplitude	Nominal 3.00V ±10% for 120ohm Zero amplitude ±0.1V	
Jitter performance	According to ITU-T G.823	
Connectors	BNC(unbalanced), RJ-48(balanced)	
Clock modes:		
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	

G.703 E1		
Clock mode 2	Receive clock to the sync and transmit (DTE1) clock from the sync device	
Clock mode 3	Receive and transmit clock from the (DTE2) sync DCE (from ETC and ERC pin)	
Clock mode 4	Receive and transmit clock from the (DTE3) sync DCE (all from ETC pin)	
Diagnostics	local loopback,Digital remote loopback, Test pattern	
Indicators	LEDs (Power, TD, RD, Signal loss, Sync loss, Error and test)	
Standards	ITU-T G.703/G.704/G.706 & G.732	
Power Input	AC: 90-250VAC, DC: 18-72 VCD	
Power Consumption	10W	
Dimensions	250 x 195 x 45 mm (D x W x H)	
Weight	1.5kg	
Temperature	0 ~ 50°C (Operating), -1 ~ 70°C (Storage)	
Humidity	10 ~ 90% non-condensing	
Certification	CE, FCC, RoHS compliant	
MTBF	65,000 hrs	

Application

NMS

ETU01A   V35 (N*64 Kbps)   E1   **E1 Network**   E1   V35 (N*64 Kbps)   **ETU01A**

RS-530 (2.048 Mbps)   E1   E1   RS-530 (2.048 Mbps)

ETU01A   **ETU01A**

Ordering Information

Model Name	Type	Description
ETU01A/AC	Power	1U, 19/2", Data port to framed E1 with 100 ~240VAC
ETU01A/DC	Power	1U, 19/2", Data port to framed E1 with -48VDC

Power Type

ETU01A / ☐☐

Example: ETU01A / AC

Interface Module	Description
ETU/TTU-V35	V.35 interface module
ETU/TTU-X21	X.21 interface module
ETU/TTU-530	RS-530 interface module
ETU/TTU-449	RS-449 interface module
ETU/TTU-232	RS-232 ASYN/SYNC interface module
ETU/TTU-G64	G.703 64Kbps co-directional interface module
ETU/TTU-NRZ	NRZ interface module (4 * BNC)
ETU/TTU-ET100	10/100 Base-Tx Ethernet E1 Bridge interface module
ETU/TTU-ET100R	10/100 Base-Tx Ethernet Routing interface module