

G.SHDSL TDM Family

G.SHDSL E1 Modem



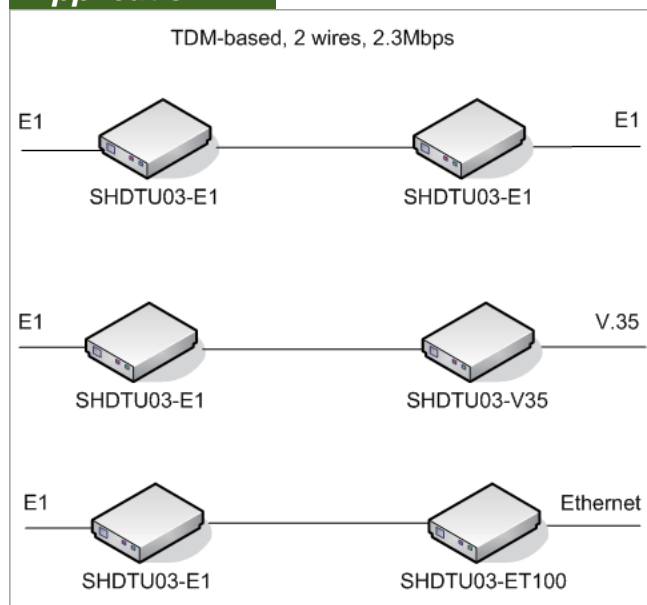
SHDTU03-E1

The CTC SHDTU03 family of G.SHDSL TDM based modems is a telecom product for carriers or SME users. The SHDTU03-E1 offers an ITU-T G.703 DTE interface which works over an SHDSL interface. The modem supports two different connectors for G.703 E1 application (balanced 120 Ohm RJ45 or unbalanced 75 Ohm dual BNCs) at bit rates from 64kbps to 2.048Mbps. The SHDTU03b-E1 can be configured and managed via EOC, or menu-driven VT100 compatible Async. terminal Interface, either locally or remotely.

Features

- Supports E1 and fractional E1 over SHDSL
- Standard ITU G.991.2
- Fast and cost-effective services of voice or TDM on a single or two wire pair of existing copper loop infrastructure
- Wetting current to protect copper line (optional)
- Local management interface with console
- Remote line loopback
- E1 performance monitoring and alarm buffer
- G.SHDSL Line performance monitoring (data rate and SNR)
- Raw and per time interval statistics

Application



Ordering Information

- **SHDTU03-E1-AC** 2wire E1 NTU with 100~240VAC
- **SHDTU03-E1-DC** 2wire E1 NTU with -36 ~ -72VDC
- **SHDTU03-E1-AD** 2wire E1 NTU with AC+DC power

Specifications

Ports	<ul style="list-style-type: none"> • Line code : 16 level Trellis coded PAM
SHDSL Interface	<ul style="list-style-type: none"> • Line data rate : User selectable from 64kbps to 2.304Mbps • Support : ANSI (Annex A) and ETSI (Annex B) • Support wetting current : 4mA-20mA and alarm on failure • Compliance: ITU-T G.991.2
E1 Interface	<ul style="list-style-type: none"> • Line code: HDB3/AMI • Data rate: 64kbps to 2048kbps • Operation: full or fractional • Impedance: 120 ohms balanced / 75 ohms unbalanced • Framing: structured with or without CRC-4 or unstructured • Timing: internal, and G.703 • Compliance: ITU-T G.703, G.704, G.706, G.821, G.823, G.826, CTR12 • Transmit level <ul style="list-style-type: none"> • Pulse amplitude: Nominal 2.37V+10% for 75 ohm / Nominal 3.00V+10% for 120 ohm • Zero amplitude: +0.1V • Transmit frequency tracking <ul style="list-style-type: none"> • Internal timing : +/- 30ppm • Loopback timing : +/- 50ppm • External timing : +/- 100ppm • Jitter performance : ITU-T G.823 • Interface connections : BNC for unbalanced, 5 pin wire connector for balanced
Performance	<ul style="list-style-type: none"> • SHDSL PM : ES-crc, SES-crc, UAS, LOSW seconds • E1 PM : ES, SES, UAS seconds • Current 15-minute period and 96 previous 15-minute periods of SHDSL and E1 performance parameters
Diagnostic	<ul style="list-style-type: none"> • E1 line loopback / Local SHDSL loopback / Remote SHDSL loopback / Remote payload loopback
Management	<ul style="list-style-type: none"> • Configuration with keypads and LCD display • Console port (RJ45 , RS232) • Support firmware upgradeable
LEDs	<ul style="list-style-type: none"> • PWR, SHDSL, FE1, LOF, LOS, TEST, LOOP, ALARM, and FAR ALARM
Power	AC Input: 100~240V DC Input: -36 ~ 72V
Power Consumption	10W
Dimensions (D x W x H)mm	168 x 195 x 48mm
Weight	850g
Temperature	0~50°C (Operating) ,0~70°C (Storage)
Humidity	10~90% non-condensing
Certification	CE, FCC, RoHS
MTBF	57,000 hours