

2/4 G.SHDSL.bis TDM(E1,V35,LAN) SNMP NTU SHDTU03b-31



The CTC SHDTU03b family of G.SHDSL.bis TDM based modem is a telecom product for carriers or SME users. In one device, the SHDTU03b-31 offers three DTE I/Fs (E1, V.35, and Ethernet), which can work simultaneously to share DSL bandwidth. The user-configurable interfaces provide flexible application for various connections. 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 V.35 interface provides high-speed TDM services by way of a DB25 I/F and adapter cable. The factory selected RS-530 interface will electrically support RS-530, X.21 and RS-449 with appropriate adapter cable. The data rate of DB25 I/F may be up to 5.696Mbps within one pair copper wires or 11.392Mbps within two pairs copper wires. The modem provides 10/100Mbps auto-negotiated Fast Ethernet via an RJ45 LAN connector, which offers customer premise high-speed LAN over TDM services. The SHDTU03b-31 can be configured and managed via LCD, or menu-driven VT100 compatible Async. terminal Interface, either locally or remotely.

Features

- 3-in-1 dot bis modem
- Supports E1, fractional E1, Nx64 V.35, X21, RS530, RS449 and Ethernet over SHDSL
- Standard ITU G.991.2 (2004) supports improved reach, speed and interoperability compared to conventional G.SHDSL
- Fast and cost-effective services of voice, TDM and data 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.bis Line performance monitoring (data rate and SNR)
- Raw and per time interval statistics

Specifications

WAN Interface

Line Rate ITU G.991.2 (2004)
Coding Trellis Coded Pulse Amplitude Modulation (TC-PAM16 and TC-PAM32)
Support Annex A ,B , F and G
Payload rates 64Kbps to 5.696Mbps (N=1 to 89) for 2-wire model.
 128Kbps to 11.392Mbps (N=1 to 172) for 4-wire model
Connection RJ-45 jack (2-wire or 4-wire)
Impedance 135 ohms

G.703 Interface

Connection
 RJ-45 for balanced 120Ω E1 cable and BNC for unbalanced 75Ω E1 cable
Line Rate 2048KHz +/- 50ppm
Framing PCM30/PCM30C/PCM31/PCM31C and Unframed
Data Rate 64Kbps to 2.048Mbps (Nx64Kbps , N=1 to 32)
Operation Full E1 and Fractional E1

Data Interface

- Payload rates: Up to 5.696Mbps(for 2-wire model) or Up to 11.392Mbps (for 4-wire model)
- Support V.35/RS-530 or V.36/X.21

LAN Interface

- Single Ethernet Interface
- 10/100Mbps Half/Full Duplex, Auto-sensing, Auto-Crossover
- Up to 1024 MAC address learning

Indications LEDs (Power, Alarm, Test, SYNC, Error, LBK, E1, Data, Eth)

DSL Timing

- Internal
- From E1 Recovery (as E1)
- From DTE (as V.35)

Performance Monitoring ES, SES, UAS, LOWS, Alarms and Errors

Loopback Tests

E1 and V.35 interface only

- Local Digital Loopback
- Remote Line Loopback
- Far-end Line Loopback
- V.35 Loopback (for V.35 interface)
- Local Loopback
- Remote Payload Loopback
- Far-end Payload Loopback
- Build-in 2047(211-1) bit BER tester

Management

- Configuration with keypads and LCD display
- Console port (RJ45 , RS232C)
- Support firmware upgrade

Power Input

AC Input: 100~240VAC, DC Input: -36 ~ 72VDC
 Dual power Input:100~ 240VAC, -36 ~ -72VDC

Power Consumption < 10W

Dimensions 168 x 195 x 48mm (D x W x H)

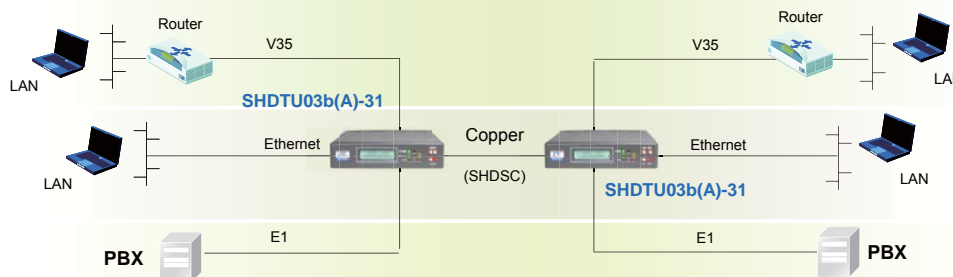
Weight 850g

Temperature 0 ~ 50°C (Operating), -10 ~ 70°C (Storage)

Humidity 10~90% non-condensing

Certification CE, FCC, RoHS

MTBF 70,000 hrs (25°C)



Ordering Information

SHDTU03b-31-AD: TDM G.SHDSL.bis 2 Wire (E1,V35,LAN) Multi-Interface NTU
 SHDTU03bA-31/SNMP-AD: TDM G.SHDSL.bis 4Wire (E1,V35,LAN) Multi-Interface NTU