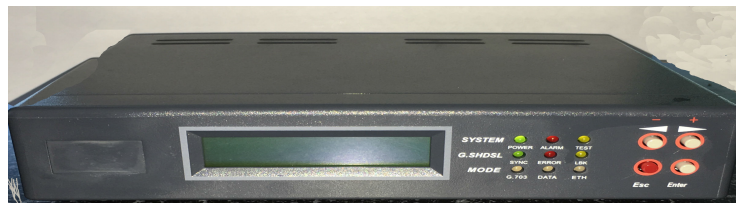


DATA-CONNECT

The Right Connection!

COPPER-T-2/4

2 / 4 - Wire G.SHDSL.bis TDM
Multi - Interface (E1 / T1, V.35, LAN) NTU



The Data Connect COPPER-T-2/4 is a member of the COPPER-MIU-2/4 family. The COPPER-T-2/4 can extend a T1 Demark over 2 wires or 4 wires via G.SHDSL bis.

The COPPER-MIU-2/4 consists of COPPER-T-2/4, COPPER-E-2/4, COPPER-ETH-2/4, and COPPER-S-2/4. The T1+E1 uses balanced 120ohm and 100ohm via T1 RJ45. The E1 unbalanced 75ohm uses dual BNC's. The serial port V.35 interface uses a DB25 connector with a DB25 and V.35 adapter cable. DB25 is RS530, X.21 and RS449. The serial data rate is up to 5.7 mbps over 2 wires and up to 11.4mbps over 4 wires. Ethernet 10/100 auto negotiated via the RJ45 LAN connector. The range of interfaces enables fast and cost-effective services on voice, TDM and Data on a single or two wire pair of existing copper loop infrastructure.

The COPPER-T-2/4 can be configured and managed with the LCD on the front of the unit or menu driven by a VT100 asynchronous terminal interface locally or remotely.

Features

- Multi-Interface (E1/T1, V35, Ethernet) G.SHDSL.bis modem
- Supports fractional E1/T1 Nx64 V.35, X.21, RS-530, RS-449 and Ethernet over SHDSL, all at the same time
- 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
- Local management interface with console menu
- Remote line loopback
- E1/T1 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 192Kbps to 5.696Mbps (N=3 to 89) for 2-wire model.

384Kbps to 11.392Mbps (N=6 to 172) for 4-wire model

Connection RJ-45 jack (2-wire or 4-wire)

Impedance 135 ohms

E1/T1 Interface

Connection RJ-45 for balanced 120Ω E1, 100Ω T1 cable and BNC for unbalanced 75Ω E1 cable

Line Rate E1: 2048KHz +/- 50ppm, T1: 1.544Mbps

Framing PCM30/PCM30C/PCM31/PCM31C and Unframed E1/T1

Data Rate 64Kbps to 2.048Mbps (Nx64Kbps, N=1 to 32)

Operation Full E1/T1 and Fractional E1

Payload rates Up to 5.696Mbps (for 2-wire model) or Up to 11.4Mbps (for 4-wire model)

Support V.35 or RS-530/V.36/X.21

LAN Interface

10/100Mbps RJ45 Interface

Half/Full Duplex, Auto-sensing, Auto-Crossover

Up to 1024 MAC address learning

Standard HDLC WAN encapsulation

Indications Power, Alarm, Test, SYNC, Error, LBK, E1, Data, Eth
DSL Timing

• Internal

• From E1/T1 Recovery (as E1/T1) • From DTE (as V.35)

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

Loopback Tests E1/T1 and V.35 interface only

• Local Digital Loopback

• Local Loopback

• Remote Line Loopback

• Remote Payload Loopback

• Far-end Line Loopback

• Far-end Payload Loopback

• V.54 Loopback (for V.35 interface)

• Build-in 2047 pattern BER tester

Management

• Configuration with keypads and LCD display

• Console port (RJ-45, RS-232)

• Supports firmware upgrade

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

Power Consumption < 10W

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

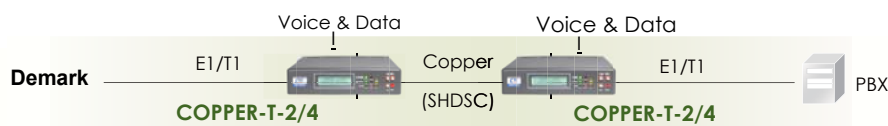
Weight 0.85kg

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

Humidity 10 ~ 90% non-condensing

Certification CE, FCC, RoHS

MTBF 70,000 hrs



Ordering Information

Model Name	Description
COPPER-T-2/4	2/4-wire T1 Demark Extension with AC+DC Power