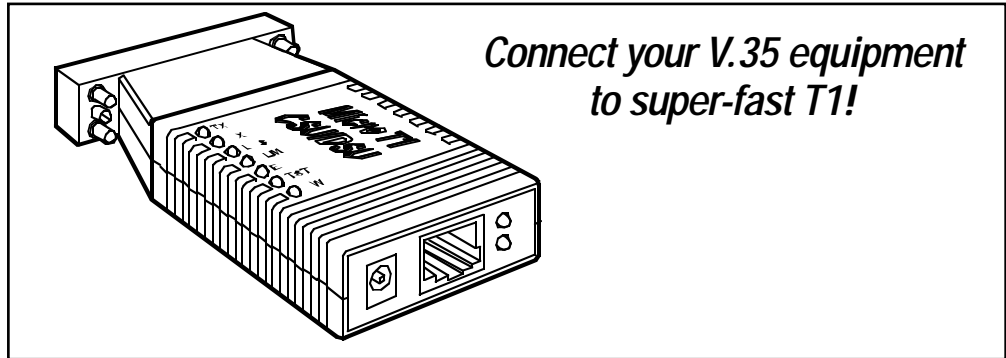


BLACK BOX[®]

NETWORK SERVICES

MICRO T1 CSU/DSU



Connect your V.35 equipment to super-fast T1!

Key Features

- ▶ **Plugs directly into the V.35 interface of a router, switch, or mux.**
- ▶ **Connects to an unstructured 4-wire T1 circuit at 1.544 mbps.**
- ▶ **Supports N x 56/64 framed T1 connections up to 1.544 mbps.**
- ▶ **Switch-selectable data rates, clocking, and LBO levels.**

The Micro T1 CSU/DSU connects to a 4-wire unstructured T1 circuit and plugs directly into the V.35 interface of a router, switch, or multiplexor.

When connected to a T1 circuit at 1.544 mbps, the Micro T1 CSU/DSU supports fractional N x 56/64 connections at speeds from 56 kbps to 1.544 mbps.

Use it in pairs for your point-to-point applications to link two V.35 devices at data rates up to 1.544 mbps at up to 1828.8 m (6000 feet).

The Micro T1 CSU/DSU supports D4/AMI or B8ZS/ESF line coding and framing, internal or network clocking, and selectable line buildout (LBO) levels—configure all these parameters via an internal DIP switch. The CSU/DSU is also configurable for switch-configurable for clear-channel (64 kbps) or fractional T1 operation. Fractional settings include 2, 4, 6, 8, 12, 16, and 24 channels.

Seven LEDs provide easy-to-read diagnostics including

central-office-initiated D4 loopup and loopdown codes, ESF line loop and payload loop FDL messages, and universal loopback de-activate message.

Power is supplied by an external transformer. Alternate power may be supplied via pin KK from the attached DTE.

Adapters are available for WAN equipment that does not have a standard V.35 interface—for instance, the Cisco 2500 Series routers, which use a high-density 60-pin connector. Call Technical Support for information about connecting a non-standard interface to the Micro T1 CSU/DSU.

Specifications

Clocking: Internal or Network

Diagnostics: Responds to CO initiated D4 loopup and loopdown codes, ESF line loop and payload loop FDL messages, universal loopback de-activate message.

Line Coding/Framing: AMI/B8ZS, D4/ESF

Maximum Distance: 6000 ft. (1828.8 m), point-to-point, when used in pairs

Operation: 4-wire

Protocol: Sync

Receive LBO: Automatic

Speed: Up to 1.544 mbps

Standards: AT&T TR62411, ANSI T1.403, TR54016

Transmit LBO: Selectable: 0, 7.5, 15, or 22.5 db

Compliance: CE marked per EMC Directive 89/336/EEC and Low Voltage Directive 73/23/EEC; FCC Part 15, Class A, Part 68; Canadian DOC CD 03

Interface: V.35

Connectors: (1) RJ-48C

Indicators: TXD, RXD, LOS, ALM, ERR, TST, PWR

Power: 115-VAC, 60-Hz external transformer

Size: 2H x 5.3W x 11.7D cm (0.8"H x 2.1"W x 4.6"D)

Weight: 0.9 kg (2 lb.)

Ordering Information

ITEM	CODE
Micro T1 CSU/DSU.....	MT120A

Note: The Micro T1 CSU/DSU must be used in pairs in point-to-point applications.