

TL3200 Series T-1 CSU/DSUs



- T-1, fractional T-1, Frame Relay and Internet applications
- Two long haul T-1 interfaces for Drop-and-Insert
- One or two V.35 channels
- Clock smoothing
- Front panel LCD and VT100 management
- Built-in pattern generator and checker

Telinc TL3200 Series T-1 CSU/DSUs provide the interface between customer equipment and a T-1 or fractional T-1 facility. They support D4 or ESF framing with AMI or B8ZS coding and provide both front panel LCD and VT100 control.

Three User Channels

TL3200 Series T-1 CSU/DSUs are available in three configurations. The TL3213 provides three user channels, two V.35 synchronous channels and a DSX1 drop-and-insert channel. The TL3212 is similar except there is no DSX1 channel. The TL3210 provides a single V.35 channel.

The synchronous channels can operate at any multiple of 56 or 64 Kbps. The twenty-four DS0s may be given to either synchronous channel, the DSX1 channel or allocated between them on a contiguous or non-contiguous basis. Timing can be from the network, from the V.35 channel, from the DSX1 channel or internal.

Front Panel and VT100 Management

TL3200 Series T-1 CSU/DSUs can be controlled from the front panel or from a local or remote ASCII console. The front panel includes a two-line by sixteen-character LCD display. Operating parameters such as framing, coding and timing are selected by scrolling through values stored in the CSU/DSU. The console port supports dial modems and VT100 terminals. All operations can be performed using the three front panel pushbuttons or from the console.

Built-in Diagnostics

Alarm conditions are shown on the RED/YEL front panel LEDs and described on the LCD. Testing of the local and the remote, unattended unit is initiated from the front panel or a VT100 console. The user can choose from a variety of local, remote V.54 and remote line loopbacks. Acknowledgment of remote loops is shown on the LCD. A built-in 2047 pattern generator and checker is also included. The TEST light illuminates with all loopbacks and whenever the pattern generator is on.

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Specifications



The TL3213 includes two V.35 channels and a DSX1 channel. The TL3212 is similar except there is no DSX1 channel. The TL3210 provides a single V.35 channel.

Network Interface (NI)

Line Rate	1.544 Mbps +/- 50 bps
Line Format	Bipolar AMI or B8ZS
Pulse Characteristics	AT&T 62411 and T1.403 compliant
Impedance	100 ohms, input and output
Line Build Out (LBO)	0, -7.5, -15 or -22.5 dB
Elastic Store	16 bits
Interface Termination	8-position RJ48C
Timing Source	Network, Internal, DSX1 or Channel 1
LDM Mode	Drives up to 6000 feet

Customer Interfaces

Rate	Sync channels DSX1 channel	Any combination of 56 or 64 Kbps up to 1.536 Mbps 1.544 Mbps +/- 50 bps drives up to 6000 feet
Electrical	Sync channels DSX1 channel	One or two CCITT V.35 Bipolar AMI/B8ZS
Mechanical	Sync channels DSX1 channel	34-pin female 8 position RJ48C
Format	Sync channels DSX1 channel	Binary serial synchronous Bipolar AMI/B8ZS

Console Port

Interface	RS232, RJ11
Speed	9600 bps, 8 data, no parity, 1 stop

Indicators

3 LEDs
2 line x 16 character LCD

Power

Wall-mounted power pack
90 to 130 VAC, 57 to 63 Hz
6 watts, 21 BTU/hr

Dimensions

2" H x 6" W x 6" D
(5.08 cm x 15.24 cm x 15.24 cm)

Weight

TL3210	1.5 lbs (.68 kg)
TL3212	2.0 lbs (.91kg)
TL3213	2.2 lbs (1.0kg)

Operating Temperature

32° to 122°F, 0° to 50°C

Relative Humidity

0% to 95%, non-condensing

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