

# TL4100

## T-1 Channel Bank



- Integrated Access Device - bundled voice and data services over a single T-1 link
- Integral CSU
- ESF, D4 and TR-008 Framing
- T-1, FXS, V.35 and RS530A interfaces
- Built-in pattern generator and checker
- Front panel indicators for test, status and alarms

The Telinc TL4100 T-1 Channel Bank provides a single, integrated platform for bundling voice, data, and Internet services over a single T-1 span. It includes T-1, FXS and data interfaces as well as an integral CSU.

### T-1 Interface

An RJ48 connector provides the physical T-1 interface. In addition, there is a dual bantam jack for bridged access to T-1 transmit and receive signal pairs.

### FXS Voice Interfaces

The FXS interface provides high-quality dial tone lines to analog key systems, modems and facsimile devices. The TL4100 provides one 50-pin Amphenol connector for up to 24 FXS ports. The ringing signal for the FXS lines is generated by ringing modules that serve groups of 12 FXS line interfaces. These 12-line groups are mapped onto the T-1 line in either time slots 1-12 or 13-24 under switch control. An internal microprocessor reads the switch settings and configures the T-1 and FXS interfaces accordingly.

### Data Interfaces

The data interfaces provide connectivity for high-speed Internet routers, frame relay devices (FRADs), video codecs, front-end processors, SNA controllers and other WAN devices. The TL4100 provides two high-speed data ports as a standard feature. Each data port can be independently DIP switch configured. The physical interfaces are DB25 female connectors. Each port may be independently programmed with a V.35 or RS530A interface at speeds of N x 56K or N x 64K.

### Comprehensive Diagnostics

The TL4100 provides comprehensive diagnostics including power-up self-test, loopbacks, test pattern generation and detection, external alarm contact for visual or audible alarms and LEDs.

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### Specifications



One T-1 interface, twenty-four FXS interfaces and two RS530A/V.35 ports are included as standard with the TL4100.

#### T-1 Network Interface (NI)

Physical	One RJ48C
Frame Format	ESF, D4, TR-008
Line Coding	AMI, B8ZS
Line Build Out (LBO)	0 dB, -7.5 dB, -15.0 dB
Clocking	Network or Internal (Stratum 4)
TR-008 Support	Universal Voice Grade (UVG) Single-party (SP) signaling modes
FDL	Per ANSI T1.403 and AT&T TR62411

#### FXS Interfaces

Physical	One 50-pin female Amphenol
FXS Supervision Mode	FXS, FXS-DN, FXS-DN-Wink, TR-008
FXS Signaling	Loop Start, Ground Start, Loop Start w/forward Disconnect, Ground Start Immediate, Ground Start Automatic, Universal Voice Grade, Universal Voice Grade Automatic, Single Party
TLP	Choice of 3 dB or 9 dB Attenuation on Transmit (Analog to T-1) and Receive (T-1 to Analog). Supports loops up to 800 ohms external resistance including handset
Ringing Voltage	50 Vrms, On hook transmission for Caller ID support

#### Data Interfaces

Physical	Two (2) female 25-pin DB25 connectors
Electrical	Two (2) RS530A/V.35 ports (DIP switch selectable)
Data Rate	N x 56K, N x 64K (N = 1 to 24)
Data Format	Synchronous
Data Protocol	Transparent

#### Power

104 to 140 VAC, 60 Hz, 0.6 amps max  
-48 VDC, -24 VDC or +24 VDC, 1.8 amps max  
Integrated AC/DC converter and ringing generator

#### Mounting

Desktop and rack mount. Includes rack mount brackets

#### Dimensions

1.75" H x 17.25" W x 12" D  
4.44 cm x 43.8 cm x 30.5 cm

#### Weight

10 lbs. (4.5 Kg)

#### Operating Temperature

32°F to 104°F, 0°C to 40°C

#### Storage Temperature

-4°F to 158°F, -20°C to 70°C

#### Relative Humidity

5 to 95% non-condensing