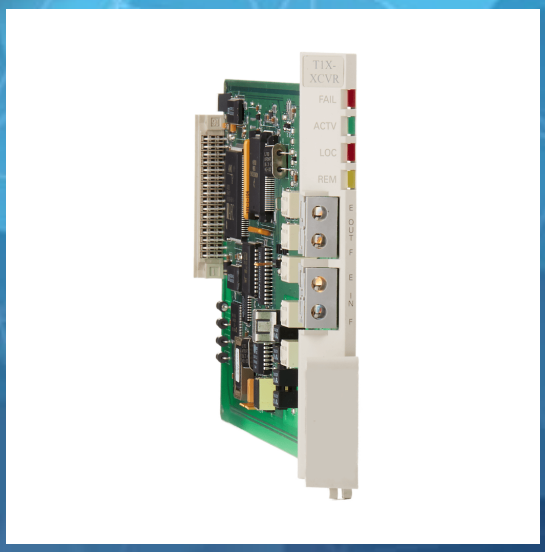

SKU: 0120-0123
Category:

T1X Transceiver (T1X-XCVR)

The non-line powering T1 Transceiver (T1X-XCVR) plug-in card provides an indoor ANSI/T1 DSX-1 level interface. It transmits and receives up to 24 DS0s of voice or data originating from either the channel units in the CBA subscriber slots, another T1 transceiver card, or a digital carrier line unit in a digital switch. It operates at the T1 rate of 1.544 Mbps. Use the T1X-XCVR card for applications requiring interface to multiplexers or other co-located equipment.

© 2026 Tellabs Access LLC

Features

- One T1 (1.544 Mbps) interface per card
- SF and ESF framing formats
- Provisionable line coding
- Front panel jack access for testing and monitoring
- Dual memory support for upgrades
- Easy provisioning via CLI or EMS

Highlights

Alarms, Test and Stastics

The T1X-XCVR has selectable alarm thresholds, BER calculation, performance monitoring statistics, and alarm history.

Line Coding and Signaling

Line coding options are AMI or B8ZS. The T1X-XCVR card performs signaling conversion and datalink termination.

Easy Provisioning

The T1X-XCVR can be easily provisioned from CUI or Tellabs Panorama Element Management System (EMS)

Cost Savings

The transciever can be provisioned as a cost-saving uplink to an ATM network

Specifications

Physical

- Height: 5.125 inches (13.018 cm)
- Width: 0.563 inch (1.429 cm)
- Depth: 10.5 inches (26.67 cm)
- Weight: 0.5 pound (0.23 kg)

Interfaces

- One (1) T1 (1.544 Mbps) interface per card

Power

- Typical power consumption: 2.0 W

Environmentals

- Operating temperature: -40 F / -40 C to +149 F / +65 C
- Humidity (relative): 5 to 95% non-condensing

Compliance

- GR-1089-CORE
- GR-499
- Jitter: 138 UI per AT&T Pub./62411, ANSI T1E1 1.2/88
- Cable interface: AT&T CB-119

© 2026 Tellabs Access LLC

Signaling

- Framing: SF and ESF
- Line coding: AMI/ZCS or B8ZS
- Loopback modes: Equipment and Facility
- Channel sequence: D1D, D2, D3/D4

Faceplate Jacks

- **E OUT Equipment Output: DS1 test access toward the internal cross-connect (backplane)**
- **F OUT Facility Output: DS1 test access toward the facility (line)**
- **E IN Equipment Input: DS1 monitoring access from the internal cross-connect (backplane)**
- **F IN Facility Input: DS1 monitoring access from the facility (line)**

Analog Parameters

- **Equalization Receive: 750 mV (10 dB attenuation)**
- **Equalization Transmit: F4 step line build out 0 to 655 feet, 133 feet per step**
- **Input impedance: 100 ÃŽÂ©, twisted pair**

Faceplate LED Indicators

- FAIL Red: Plug-in card failure, or card unable to communicate with the CPU
- ACTV Green: Datalink is established with far end
- ACTV Flashing Green: 60 flashes per minute: loopback in progress (card is receiving its own signal) 120 flashes per minute: diagnostics, self-testing, or provisioning in progress
- LOC Red: Local data reception is unsatisfactory (LOF, LOS, high BER, timing slip, and so forth)
- AIS Green or Blue: Remote (far end) data reception failure

Management

- Tellabs Panorama Element Management System (EMS)
- Craft User Interface (CUI)

Software Support

- Minimum base software FP16 and higher

Installations

- Supported in Tellabs 1000 MSAP CBA1120 and CBA1048

© 2026 Tellabs Access LLC