



**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 DSOs 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.

# **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

# 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 Ω, 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