



SKU: 0120-0166

Category: Cards/Units

## OC12c Transceiver (OC12c-XCVR)

The Optical Carrier Level 12 Transceiver (OC12c-XCVR) plug-in card has more bandwidth for more revenue generating services and transport. It functions as an uplink to an ATM network and as a high-rate, point-to-point transport between Tellabs 1000 MSAP series terminals. The OC12c-XCVR card is compatible with SONET OC-12c standards per GR 253-CORE. The OC12c-XCVR plug-in card has a 622 Mbps fiber optic interface using Intermediate Range Optics. Both a transmitter and a receiver are on a single card.

## Features

- Provides a full 622 Mbps physical interface on 1310 nm single-mode fiber for its OC12c interface using two fibers - one transmit and one receive
- Functions as an uplink to an ATM network or an inter-terminal transport.
- SONET Automatic Protection Switching (APS) 1+1 enabled when provisioned as an uplink
- GR-253 Intermediate Reach compatible (GR-253-CORE)
- Supports 2048 virtual channel connections
- Dual-memory for non-service affecting programming
- SC Connectors for easy installation

## Highlights

### Flexible Transport

As a general purpose interterminal transceiver, the OC12c-XCVR carries both TDM and ATM traffic: TDM traffic is converted to ATM cells. 50 Mbps are reserved for the TDM backplane. The OC12c-XCVR contains Tellabs next generation ASIC, the Pathfinder, which is a key differentiator and technology enabler providing access to the ATM cell bus. The Pathfinder functions as an "ATM switch on a chip" providing ATM switching, QoS, concentrator capabilities, and conversion of TDM traffic to ATM and back to TDM.

### Video Delivery

As a video uplink to the ATM data network, the OC12c-XCVR interfaces to any UNI 3.1 and UNI 4.0 compliant ATM switch or router. As an ATM uplink, the card supports a 500 Mbps payload for use as a video network uplink. Automatic Protection Switching (APS 1+1) is enabled when the card is provisioned as an uplink.

### Low Power and Thermals

The OC12c-XCVR card uses powering and heat dissipation technologies available in the Tellabs 1000 MSAP terminal can operate in any of the shelf's 22 general purpose slots.

### High Availability

High network availability is supported with the by equipping a Tellabs 1000 MSAP system with two (2) OC12c-XCVR plug-in cards. This configuration assures system, card level and per port level redundancy.

## Specifications

### Physical

- Height:5.125 in (13.018 cm)
- Width:0.563 in (1.429 cm)
- Depth:10.5 in (26.67 cm)
- Weight:0.5 lb (0.23 kg)

## Interfaces

- Single-mode laser operating at 1310 nm.
- Full-duplex Transmit and Receive
- SC Connectors for easy installation
- PIN receiver

## Power Consumption

- Maximum power consumption:
- Typical power consumption: 8 W

## Environmentals

- Temperature:-40° to +158° F (-40° to +70° C)
- Relative Humidity:5-95% noncondensing
- Altitude:Up to 10,000 feet

## Compliance

- GR-253-CORE
- ATM UNI 3.0, 3.1, 4.0

## General

- Signaling Line coding:Binary Non-Return to Zero (NRZ)
- Signaling Line rate:622.08 Mbps
- Transmitter Min Launched Power:-15dBm
- Transmitter Max Launched Power:-8dBm
- Receiver Sensitivity:-28dBm
- LED Indicators
- FAIL (red)
- ACTIVE (green)
- SYNC (green)
- LOC REM (red)

## Management

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

## Software Support

- Minimum base software FP16 and higher

## Installations

- Supported in Tellabs 1000 CBA

## Ordering Information

- OC12c-XCVR: 0120-0166