



Cabling the Channelized Line Cards

This chapter provides information about the physical interfaces and instructions for installing the cables on the CLC2 (STM-1/OC-3).

This chapter includes the following sections:

- [Channelized Line Card Interfaces, page 1](#)
- [Cabling the Optical SFP Interface, page 3](#)

Channelized Line Card Interfaces

The CLC2 card supports two types of Small Form-factor Pluggable (SFP) transceiver modules. The type of optical fiber interface on the line card is dictated by the SFP modules installed on the card. The SFP modules are hot-pluggable.

Table 1: SFP Modules Supported by the CLC2

Module Type	Card Identification	Interface Type	Cable Specifications
Single-mode Optical Fiber	Channelized (STM-1/OC-3) SM IR-1	Single-mode Fiber, LC duplex female connector	<p>Fiber Types: Single-mode optical fiber</p> <p>Wavelength: 1310 nm</p> <p>Core Size: 9 micrometers</p> <p>Cladding Diameter: 125 micrometers</p> <p>Range: Intermediate/21 kilometers</p> <p>Attenuation: 0.25 dB/KM</p> <p>Min/Max Tx Power: -15 dBm/-8 dBm</p> <p>Rx Sensitivity: -28 dBm</p>

Module Type	Card Identification	Interface Type	Cable Specifications
Multi-mode Optical Fiber	Channelized (STM-1/OC-3) Multi-Mode	Multi-mode Fiber, LC duplex female connector	Fiber Types: Multi-mode optical fiber Wavelength: 1310 nm Core Size: 62.5 micrometers Cladding Diameter: 125 micrometers Range: Short/2 kilometers Min/Max Tx Power: -19 dBm/-14 dBm Rx Sensitivity: -30 dBm

**Important**

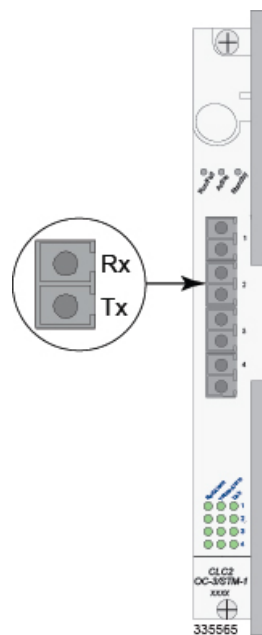
The SFP interface is only certified to work with SFP transceiver modules purchased from Cisco for use with the CLC2.

**Important**

Because of the optical SFP interface, this product has been tested and found to comply with the limits for Class 1 laser devices for IEC825, EN60825, and 21CFR1040 specifications.

The following figure shows the LC-connectors for the CLC2. Each SFP fiber interface provides both transmit (TX) and receive (RX) on the port.

Figure 1: CLC2 Fiber Optic Interfaces



Cabling the Optical SFP Interface

To use the optical SFP interface on the a channelized line card, follow the instructions below.



Important Be sure to label the interface cables with their destination prior to connecting them to the CLC2. This will assure proper reconnection should the card need to be serviced.

Only trained and qualified personnel should install, replace, or service this equipment.

Invisible laser radiation may be emitted from the aperture of the port when no cable is connected. Avoid exposure to laser radiation and do not look into open apertures. **Be sure to keep the cover on the interface when it is not in use.**

Laser Klasse 1 - nur speziell ausgebildetes Personal darf dieses Geraet warten.

Nicht in den Laser schauen, um Augenverletzungen zu vermeiden.

Nicht genutzte Buchsen mit der entsprechenden Kappe verschliessen.

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- Step 1** To ensure full connectivity, use your thumb to firmly press the SFP transceiver module into its socket on the front panel of the card.
- Step 2** Remove the cover from the SFP interface.
- Step 3** Inspect and clean the connector's fiber-optic end-faces.
- Step 4** Insert the fiber-optic optical cable from a network device into the interface and ensure that it is securely in place.
- Step 5** Repeat step 1 through step 4 to connect a fiber-optic cable to other ports, if so equipped.
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