

Which port should I connect the fiber optic module to



Overview

Cisco SFP and SFP+ Transceiver Module Installation Notes These transceiver modules are hot-swappable input/output (I/O) devices that plug into 100BASE, 1000.

Key Takeaways

You should connect the fiber optic module to a compatible SFP or SFP+ port on your network device, ensuring the module type matches the port and fiber type. Choosing the Correct Port

Fiber optic modules, such as SFP (1G) or SFP+ (10G), are designed to plug into SFP or SFP+ ports on switches, routers, or other network devices. These ports are hot-swappable, allowing you to insert or remove modules without powering down the device. The port you select must match the module's specifications, including:

- Data rate: SFP for 1G, SFP+ for 10G Ethernet or Fiber Channel.
- Fiber type: Single-mode (SMF) or multi-mode (MMF) fiber.
- Wavelength: Ensure the module's wavelength matches the other end of the fiber link.

Connecting the Module

- Insert the module: Align the SFP or SFP+ module with the port and gently push until it clicks into place. A latch usually secures it.

- **Attach the fiber cable:** For duplex LC cables, connect the TX (transmit) fiber to the module's TX port and the RX (receive) fiber to the RX port. For MPO/MTP cables, use breakout cables to convert to LC connectors and ensure correct polarity .

- **Check link status:** Most devices have LED indicators to confirm an active connection. Testing tools like iPerf can verify throughput and latency .

Connector Considerations

Most modern SFP modules use LC connectors, while SC connectors are found in legacy networks and MPO/MTP connectors are used for high-density applications . Ensure the fiber patch cable connector matches the module to avoid adapters or signal loss.

Additional Tips

- Use only certified modules compatible with your device to ensure reliability .

- Keep fiber connectors clean using lint-free cloths and alcohol to prevent signal degradation .

- Configure the port settings (speed, duplex, and WAN/LAN designation) according to your network requirements . By following these guidelines, you can ensure a proper and reliable connection between your fiber optic module and the network device.

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