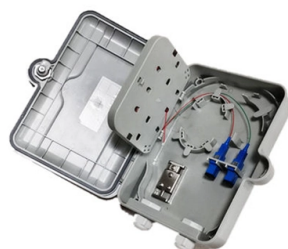


RIVO MULTITRADE OPTICAL SYSTEMS

Router optical module pairing



Overview

Optics and Hardware Configuration Guide for Cisco 8000 Series Provides instructions for configuring 800 Gigabit Ethernet connectivity using Cisco QSFP-DD80.

Key Takeaways

To pair a router with an optical module, insert the module into the router's SFP port, connect the fiber optic cable correctly, and configure the router for your ISP's connection type.

Step 1: Prepare the Equipment

Ensure you have the following:

- Router with SFP or fiber-ready port
- Compatible optical module (SFP/GPON module)
- Fiber optic cable (usually SC/APC or SC/UPC connectors)
- Dust plugs and labels for fiber protection and identification
- Ethernet cable if connecting via an ONT instead of direct fiber .

Step 2: Install the Optical Module

- Remove the dust plug from the router's SFP port.
- Gently insert the optical module into the port until you hear a click. If it doesn't fit, rotate the module 180 degrees and try again. Do not force it .

- Keep the dust plug from the module in a safe place until you connect the fiber.

Step 3: Connect the Fiber Optic Cable

- Remove the dust caps from both ends of the fiber cable.
- Label both ends temporarily to identify transmit (TX) and receive (RX) ends.
- Connect the fiber cable to the optical module, ensuring the TX and RX ends match the module's ports. Do not reverse the connections .
- Replace temporary labels with permanent ones for future reference.

Step 4: Configure the Router

- Access the router's configuration interface via a web browser (commonly 192.168.0.1 or 192.168.1.1).
- Set the connection type according to your ISP requirements, often PPPoE over VLAN for fiber connections. Enter the username and password provided by your ISP .
- Enable any optional settings like Quality of Service (QoS) if you need prioritized traffic for VoIP or video calls .

Step 5: Verify the Connection

- Power on the router and check the status lights on both the optical module and router.
- Ensure the link is active and the router receives an IP address from the ISP.
- Test internet connectivity to confirm proper pairing.

Best Practices

- Handle fiber cables carefully to avoid bending or damaging the strands.
- Keep dust plugs on unused ports to prevent contamination.
- Use high-quality Ethernet cables (Cat6a or higher) if connecting through an ONT to maintain full fiber speeds .
- If the connection fails, double-check TX/RX alignment, module compatibility, and ISP credentials. By following these steps, your router should be successfully paired with the optical module, providing a stable and high-speed fiber connection.

Article Content

Optics and Hardware Configuration Guide for Cisco 8000 Series

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If the same optics are re-inserted on the router within 15 minutes, a brief disruption or link flap may occur on the

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Small Form-factor Pluggable

Small Form-factor Pluggable Small Form-factor Pluggable connected to a pair of fiber-optic cables Small Form-factor Pluggable

Syrotech 20KM 1.25G 1310 Single Mode Single Fiber SFP Module

Product Description Brand: Syrotech Syrotech 20KM 1.25G 1310 Single Mode Single Fiber SFP Module - Pair Made with heavy-duty

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This data sheet describes the benefits, specifications, and ordering information for the Cisco SFP Modules for Gigabit

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SFP ports enable Gigabit switches to connect to fibers and Ethernet cables in order to extend switching functionality

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Optical Services Module Installation and Verification Note Product Numbers: ... This publication provides procedures for installing

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