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How to use the dual-optical module on the switch



Overview

Cisco SFP and SFP+ Transceiver Module Installation NotesLearn more about how Cisco is using Inclusive Language. This installation note provides the install.

Key Takeaways

To connect a dual-optical module to a switch, insert the SFP/SFP+ module into the switch port, connect the corresponding fiber cables to the module, and ensure compatibility in fiber type, wavelength, and duplex mode.Step-by-Step Connection
• Check Compatibility Ensure the dual-optical module matches the switch port type (SFP or SFP+), fiber mode (single-mode or multi-mode), and wavelength (e.g., 850 nm, 1310 nm, 1550 nm) to avoid signal loss or incompatibility issues . Verify that the module supports the required transmission distance and port speed.

• Insert the Module Remove the dust cap from the SFP/SFP+ module and the switch port. Carefully insert the module into the switch's optical slot until it clicks into place. These modules are hot-swappable, so the switch does not need to be powered down .

• Connect Fiber Cables
• For dual-fiber modules, connect the transmit (TX) fiber from the module to the receive (RX) fiber on the other device, and vice versa.

• Use pre-terminated fiber cables with LC or SC connectors for easier installation and reduced signal loss .

• Ensure the fiber strands are not bent sharply to prevent attenuation.

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• Cascading or Linking Switches If connecting two switches, ensure both modules are dual-fiber and of the same mode. If one switch uses single-fiber and the other dual-fiber, a media converter may be required to bridge the connection .

• Optional Media Converter If the other device lacks an SFP slot, use a media converter: insert the SFP module into the converter, connect the fiber cable, and link the converter to the switch via Ethernet patch cord. Both converters require external power .

• Verify Connection After connecting, check the optical module status via the switch CLI or management interface. Commands like show fiber-ports-optical-transceiver on Cisco switches display link status, signal strength, and errors . Ensure the link is active and error-free.
Tips for Reliable Operation
• Keep fiber connectors clean and free of dust.

• Match fiber type and wavelength on both ends.

• Avoid exceeding the module's maximum transmission distance.

• Use proper cable management to prevent stress on the fibers. Following these steps ensures a stable and high-performance optical connection between your dual-optical module and the switch.

Article Content

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Read the definitive 2026 guide on SFP modules. We explain Single Mode vs Multimode, DDM diagnostics, and how to choose the

Displaying Optical Module Information

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Optical Switch, Fiber Optical Switches, 1xN MEMS, Mechanical

Optical switches, including Mechanical Optical Switch, MEMS Optical Switch, and other Optical Switches, enable signals in optical

How to Install and Remove Optical Modules Safely

Install optical modules safely with ESD protection, proper handling, and dust control. Follow these steps to avoid

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Explore the ultimate guide to optical modules. Learn types, functions, performance metrics & how to choose the right

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View the Optical Module Status on a Switch through the Command ...

This article provides instructions on how to view the Optical Module Status on your switch through the Command Line

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Describes what an optical module is and FAQs, including the fundamentals, appearance and structure, key performance counters,

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Maintaining Port Integrity: Forcing a module or using excessive pressure can damage the expensive SFP cage (port)

Checking the Optical Module Type

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The selected optical modules must be supported by the optical interfaces. Check whether the optical module used on the switch is

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What Is an Optical Module

On an optical network, a sender needs to convert electrical signals into optical signals before sending them to a receiver, and the

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An optical switch may operate by mechanical means, such as physically shifting an optical fiber to drive one or more

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Replacing an Optical Module

Replacing an Optical Module Context Never look directly into an optical module or the ends of optical fibers. Optical modules and

Optical fiber connector

An optical fiber connector is a device used to link optical fibers, facilitating the efficient transmission of light

The Key External Components of Optical Modules

An optical module serves as the backbone of modern fiber-optic communication. Its appearance often resembles a

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FAQ Summary of optical modules: answers on types, compatibility, design, troubleshooting, and glossary for 2025

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Cisco Prisma II Optical Switch Modules Data Sheet

Description If you''re looking for optical path redundancy and using the Cisco ® Prisma ® II best-in-class architecture,

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In order to extend long distance network, it''s common practical operation to use fiber optical cable to link two PoE switch. PoE

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How to Use the Optical Transceiver Module Correctly

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This video shows you how to properly use the optical transceiver module on the switch, including how to insert the

How to View Optical Module Status on a Cisco Switch via CLI ...

In this Cisco Tech Talk, learn how to view the optical module status on a Cisco switch using the Command Line

3 FAQs of Connecting Switches by Fiber Optical Ports

What are the main requirements of connecting switches by fiber optical ports? Under normal circumstances, two

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