

# How to pair a gigabit optical module



## Overview

The SFP port is a built-in optical port of a Gigabit Ethernet switch, so it cannot be directly connected with a twisted pair or a jumper. It needs to be connected to an optical module first, and then it can be transmitted with an optical fiber patch cord. The RJ45 port is for copper cable. These installation instructions provide overview and specification information for small form-factor pluggable (SFP/ SFP+/SFP28) modules, as well as instructions for installing and removing the modules. These transceiver modules are hot-swappable input/output (I/O) devices that plug into 100BASE, 1000BASE and 10GBASE ports (for SFP+), which connect the module. Small Form-factor Pluggable modules (SFP module) are the workhorses of modern network connectivity, enabling flexible fiber optic or copper links between switches, routers, firewalls, and servers. The PoE switch with SFP can be linked together by using the fiber optical cable.



## Article Content

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Please note that 10 Gigabit Ethernet defines the protocol, not necessarily the medium. For example, you may use 10GigE over optical with optical SFP+ transceiver modules.

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First, insert the SFP module into the slot and connect the Ethernet cable afterwards. If the cable is inserted first, the latch on the module may prevent it from being fully inserted.

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How to connect SFP module

The PoE switch with SFP can be linked together by using the fiber optical cable. The advantages of fiber optical connection are high speed, long distance, low latency.

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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 damage and ensure network reliability.

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These installation instructions provide overview and specification information for small form-factor pluggable (SFP/ SFP+/SFP28) modules, as well as instructions for installing and removing the modules.

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## Pluggable Transceivers Installation Guide

The type of switch, router, or other component determines the compatible type of SFP module. Use only Extreme Networks-certified SFP, SFP+, and SFP28 modules in the SFP port on the hardware.

Dec 12, 2025

## Cisco SFP and SFP+ Transceiver Module Installation Notes

The SFP transceiver modules are hot-pluggable I/O devices that plug into module sockets. The transceiver connects the electrical circuitry of the module with the optical or copper ...

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## Installing Optical Modules

A copper module is installed in the same way as an optical module, except that the copper module connects to an Ethernet cable instead of an optical fiber. This section uses an optical module as an ...

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