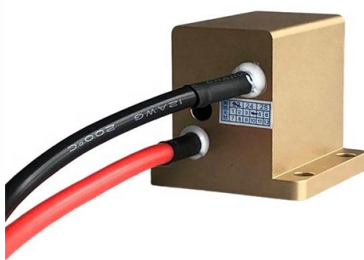


What fiber optic cable should be used for the SFP port



Overview

The SFP+ module is also called the SFP+ transceiver, SFP+ optical module, SFP+ optics, or SFP+ fiber transceiver.

Key Takeaways

To connect a fiber optic cable to an SFP port, insert the SFP module into the device, remove dust caps, then plug in an LC duplex fiber cable—matching TX to RX and ensuring the fiber type (single-mode or multimode) matches the SFP's specifications.

Step-by-Step Connection

-

Insert the SFP module

- Push the SFP into the switch/router/media converter until it clicks.

-

Prepare the fiber cable

- Remove dust caps from both the SFP and the LC connectors.
- Clean the fiber end faces to avoid insertion loss.

-

Connect the LC duplex cable

- Most SFPs use LC duplex connectors.
- Connect TX → RX and RX → TX between devices; a straight TX→TX connection will not work.
-

Verify link

- Check that the Link LED illuminates.
- Ensure wavelength, speed, and fiber type match the SFP module.

Choosing the Correct Fiber Cable

Different SFP modules require specific fiber types:

SFP Type	Fiber Type	Connector	Wavelength	Notes
SX (1G)	OM1/OM2 multimode	LC duplex	850 nm	Short-distance LAN links
LX (1G)	OS2 single-mode	LC duplex	1310 nm	Long-distance building links
10G SFP+ SR	OM3/OM4/OM5 multimode	LC duplex	850 nm	Data center short-reach
10G SFP+ LR	OS2 single-mode	LC duplex	1310 nm	Up to 10 km reach
QSFP SR4 (40G/100G)	OM3/OM4 MPOMPO/MTP	850 nm	Parallel optics	Key Compatibility Rules

- Match fiber mode:
- Single-mode SFP ↔ single-mode fiber
- Multimode SFP ↔ multimode fiber
- Match connector type (usually LC).
- Match wavelength (850 nm for MM, 1310 nm for SM).
- Ensure TX/RX crossover for duplex fiber.

Correct pairing of SFP module, fiber type, and connector ensures stable optical links and prevents common issues such as no link or abnormal optical power.

Article Content

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What cable does SFP use?

Cable Type: Standard SFP modules can be used with Ethernet as well as fiber optic cables. Copper cables include

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Explore common SFP fiber optic connector types, including LC, SC, and MPO/MTP. Learn their differences, use cases, and

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SFP Compatibility Guide and How to Use a Compatible SFP Module?

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What is Ethernet SFP? RJ45 vs SFP Port

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An SFP connector is part of a Small Form-factor Pluggable (SFP) module used to link fiber optic or copper cables to

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use SFP fiber transceiver modules and optical cables to go up to 10km / 6.2 miles (single mode standard) or up to 50

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They are most commonly used to add fiber ports. Which SFP transceiver you choose depends on the cable type, application,

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SFP modules can operate over both optical fiber and Ethernet cables, leading to the two main types: fiber SFP and

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Reason to use the SFP fiber port; CAT 5E/6/7 cable has a estimated max length of 326 ft before you start getting data loss and if you

How to choose an optical fiber link and an SFP module?

For example, SFP modules (Small Form-Factor Pluggable) are among highly demanded types and have embedded

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It is essential to consider the specific connection distance and optical cable used when selecting these SFP

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Extend your network with fiber using SFP ports on UniFi gear. Learn how to choose modules, avoid pitfalls, and set up fast, reliable

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SFP stands for Small Formfactor Pluggable. It's a standard for a hot-swap hardware interface usually used for connecting fibre optic

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1. Insert a 1000BASE-SX SFP transceiver into the SFP port of a 1G switch. 2. Insert another 1000BASE-SX SFP

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You can use SFP connectors with both single-mode and multimode fiber optic cables. They support high-speed

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