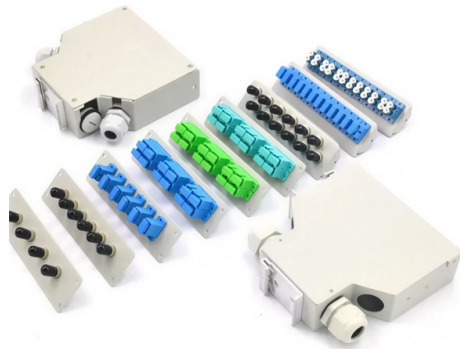


Which fiber optic interfaces can be used on a router



AI Overview

Routers support a variety of fiber optic interfaces, including LC, SC, ST, FC, and MTP/MPO connectors, often via modular transceivers like SFP, SFP+, QSFP, and XFP.

Common Fiber Connector Types

- LC (Lucent Connector): A small form-factor connector with a push-pull latch, widely used in high-density router and data center applications. Compatible with both single-mode and multimode fibers .
- SC (Subscriber Connector): Square-shaped with a push-pull mechanism, commonly used in telecommunications and CATV networks .
- ST (Straight Tip): Bayonet-style twist-lock connector, often found in legacy systems and industrial networks .
- FC (Ferrule Connector): Threaded connector providing secure connections in high-vibration environments, such as industrial or military applications .
- MTP/MPO: Multi-fiber connectors capable of connecting up to 12 fibers in a single interface, ideal for high-density applications .

Fiber Module Form Factors

Routers typically use modular optical transceivers to interface with fiber cables. Common form factors include:

- SFP (Small Form-factor Pluggable): Supports 1 Gbps or 10 Gbps connections, hot-s...

Article Content

Jan 05, 2026

The Ultimate Guide to SFP Modules (2026): Types,

What is an SFP? SFP (Small Form-factor Pluggable) is a compact, hot-pluggable network interface module

Nov 08, 2025

Types of Fiber Optic Connectors: LC, SC, ST, FC Explained

Learn about the main types of fiber optic connectors — LC, SC, ST, and FC — their specs, applications, and how to

Aug 05, 2025

SFP Interface: Definition, SFP vs. RJ45, Uses and Applications

Instead of relying on a fixed port type, an SFP interface allows network devices to use interchangeable transceiver

Dec 14, 2025

Intro to Networking

This article describes the common types of fiber optic cable used for data transmission. Ubiquiti also provides branded optic

Mar 25, 2026

Fiber Optic Industry Acronyms

This comprehensive reference of standardized fiber optic acronyms is a resource for understanding technical shorthand across

Jan 18, 2026

Determining Fiber Optic Compatibility with Routers: A Comprehensive

Learn how to determine the compatibility of fiber optic cables with routers, including the process of installing a fiber

Oct 31, 2025

Different types of interfaces in a Cisco Router

- FDDI Fiber Distributed Data Interface. - FDDI networks operates at 100 Mbps speed and uses a token-passing mechanism to

May 14, 2026

Fiber Optic Router...What is it and why do you need one?

A fiber optic router is a small box that translates data from your fiber modem (or ONT) to communicate a Wi-Fi signal to the devices

Nov 28, 2025

Cisco router with fiber optic interface

I would like to procure a Cisco router which has a fiber optic interface (epon) so that I can get Internet connection from

Oct 18, 2025

Optical Fiber Explained and Demystified

Introduction In today's networks, it is almost impossible to find a network professional who has never been in touch with fiber-based

Jan 12, 2026

What fiber optic network interface card do I need for a WAN connection

I'm thinking on building my own (micro-atx) router for business and personal projects at home. My question is what

May 29, 2026

Fiber Optic Connectors Types & Fiber Cable Connector Guide for

Discover all major fiber optic connector types, including SC, LC, FC, ST, MPO, and hardened connectors. Learn

Feb 09, 2026

Fiber Connector Types: A Complete Guide (2024)

Although manufacturers have launched over 100 fiber connectors, only a few types are the industry's most popular

Nov 08, 2025

Fiber optical module and common knowledge of optical interfaces

However, to make full use of fiber optic technology, it is important to have a basic understanding of fiber optics, optical

May 15, 2026

Fiber internet routers and modems vs. ONTs | Switchful

Learn about the tech you need in your home to use fiber internet, including the different between modems and optical

Feb 10, 2026

9 Best Wi-Fi Routers For Fiber Optic Internet Reviews

Discover the best routers for high-speed fiber optic internet. Get blazing fast Wi-Fi

Feb 19, 2026

Common Applications of SFP+ Interface

With the launch of the new Wi-Fi 7 routers BE800 and BE900, our home routers have begun to utilize the high speeds

Jun 21, 2026

How to Identify Various Fiber Interface Types

(1) Both single-mode fiber and multi-mode fiber are used for long-distance high-quality

Jan 07, 2026

what routers can you use with only a fiber optic cable

Hello, I tried using my own router rather than renting Verizon's for \$15 a month. But when I got to the apartment, only a fiber optic

Feb 19, 2026

9 Best Fiber Internet Routers 2025 | HighSpeedOptions

Make the most of your fiber internet connection with the right equipment. Here we show you the 9 best

Feb 07, 2026

Fiber Optic vs Ethernet Port Differences: Connectors

Learn key differences between fiber optic connectors (SC, ST, SFP+) and Ethernet ports. Fiber supports

Dec 09, 2025

Set Up a Fiber-Optic Network in Your Home or Office (2026)

Learn about the various fiber-optic components used for running fiber in your house, office, or between buildings. Find

Jan 10, 2026

Best routers for fiber internet 2025: our top picks for fast broadband

If you are looking for a new fiber internet router, then you should check our round-up of some of the best routers right

Jul 26, 2025

The Ultimate Guide to SFP Modules (2026): Types, Speeds

SFP (Small Form-factor Pluggable) is a compact, hot-pluggable network interface module used to connect network devices

Mar 16, 2026

Passive optical network

Passive optical network A fiber optic cable assembly with SC APC connectors, as commonly used to link

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://ntmmgroup.co.za>

Email: sales@ntmmgroup.co.za

Phone: +27 82 471 2596

Address: Unit 7, Optic Park, 24 High-Tech Lane, Century City, Cape Town, 7441, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

