

Gigabit Ethernet Fiber Optic Connector



Overview

SFP ports support multiple data rates and interfaces, including Gigabit Ethernet, 10 Gigabit Ethernet, Fibre Channel, SONET/SDH, and more. They can also help different transmission distances, ranging from a few meters to several kilometers. The most popular variant, 1000BASE-T, is defined by the IEEE 802. SFP+ interconnects use the same. easy-to-install modules that provide a simple way to add fiber connectivity or an extra Gigabit Ethernet port to your Cisco 100, 200, 300, and 500 Series switches. The transceivers are available for single-mode or multimode fiber-optic cabling and can support distances from 100 meters up to 40. The Hirschmann line has a variety of transmitter and receiver options available, allowing users to choose the correct transceiver for each link in order to provide the required optical reach over fiber when fiber is chosen—or the correct data rate and connection when twisted-pair copper is used. As a critical Ethernet physical layer standard, they specify a set of.



Article Content

Apr 30, 2026

1000BASE-SX, 1000BASE-LX, 1000BASE-ZX& BX SFP:

1000BASE-LX SFP is a gigabit Ethernet standard over fiber optics for long reach. It operates on single-mode fiber (SMF) or multimode fiber (MMF) with

Dec 28, 2025

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 performance for your home network.

Apr 28, 2026

Transceivers

The Hirschmann line has a variety of transmitter and receiver options available, allowing users to choose the correct transceiver for each link in order to provide

Aug 12, 2025

SFP+, XFP, QSFP+, DAC Twinax Cable 10Gtek Transceivers Co., Ltd

Transceivers SFP+ transceiver is a standardized form factor for fiber optic and is used in datacom and telecom optical links, offering a smaller footprint and lower power consumption than XFP

Apr 07, 2026

ipolex Gigabit Single-Mode LC Fiber to Ethernet Media ...

About this item Seamless Conversion of LC Fiber to Copper – This fiber optic to ethernet media converter kit includes a single mode 1000BASE-LX SFP module (1310nm), which enables you to convert 1000BASE-LX Duplex LC fiber to 10/100/1000 Base-T RJ-45 copper media or vice versa.

Sep 18, 2025

ALLNET GmbH -SFP / Mini-GBIC modules

This simplifies your installation: instead of having to replace an interface card in the switch, for example, an SFP port can serve as a Gigabit Ethernet, fiber optic or 2-wire connection.

Apr 18, 2026

Ethernet to Fiber Optic Converters (Point to Point)

Our rugged, industrial-grade, point-to-point Fast and Gigabit Ethernet to fiber optic converters work in pairs to extend 10/100/1000M Ethernet signals over long distance.

Apr 16, 2026

USB 3.0 to Fiber Optic Converter

USB 3.0 to Fiber Optic Converter - Compact USB to Open SFP Adapter - USB to Gigabit Network Adapter - USB 3.0 Fiber Adapter Multi Mode (MMF)/Single Mode

Oct 14, 2025

Eaton Tripp Lite Series Gigabit Multimode Fiber to

About This Item The economical N785-INT-LC-MM Gigabit Multimode Fiber to Ethernet Media Converter allows you to extend your 10/100/1000 Mbps Ethernet

Jun 11, 2026

An introduction to SFP ports on a Gigabit switch

An introduction to SFP ports on a Gigabit switch SFP ports enable Gigabit switches to connect to a variety of fiber and Ethernet cables and extend switching functionality throughout the

Feb 27, 2026

Industrial Gigabit Ethernet to Multimode Fiber Optic

The ETH-FIBER-MM-2 has a RJ45 connector for the gigabit Ethernet port, and either an ST type or SC type connector for the fiber optic link. The unit extends the

Dec 20, 2025

Eaton Tripp Lite Series Gigabit Singlemode Fiber to

Includes North America U.K. Europe and Australia plug adapters Supports both full and half duplex operation Extends your copper Gigabit Ethernet network past the

Apr 17, 2026

SIIG USB-C to SFP Fiber Gigabit Ethernet Adapter

USB-C to SFP Gigabit Ethernet adapter allows you to quickly add a SFP Fiber Gigabit Ethernet connection through a USB-C port on your computer or other compatible device, offers data transfer

Apr 17, 2026

SFP vs GBIC Understanding the Key Differences

While both serve the essential purpose of connecting network devices (like switches and routers) to fiber optic or copper cabling, they are distinct

Jan 07, 2026

TP-Link MC220L | Gigabit SFP to RJ45 Fiber Media

Gigabit and Reliable Connection Auto-Negotiation Gigabit Connection Fully compatible with 10/100/1000 Base-T ethernet connections, MC220L supports

Aug 30, 2025

4 Port Gigabit over fiber Transceiver

4-Port Gigabit Ethernet over Single Fiber Transceiver Thor Fiber's 4-Port Gigabit Ethernet Transceiver transmits five 10/100/1000 Mbps Ethernet channels over a

Aug 09, 2025

Motorola MB8611 DOCSIS 3.1 Multi-Gig Cable Modem | Pairs

About this item Ultra-fast DOCSIS 3.1 performance - Delivers true Gigabit-plus speeds. Supports fast internet plans with Comcast Xfinity, Cox, and Spectrum. Backward compatible with 32x8 DOCSIS 3.0. Pairs with any WiFi router - Seamlessly compatible with any WiFi router to connect all your devices. This

Nov 01, 2025

Gigabit Ethernet

Gigabit Ethernet was the next iteration, increasing the speed to 1000 Mbit/s. The initial standard for Gigabit Ethernet was produced by the IEEE in June 1998 as

Mar 10, 2026

Cisco MGE SFP Modules Cisco Small Business Network Accessories

easy-to-install modules that provide a simple way to add fiber connectivity or an extra Gigabit Ethernet port to your Cisco 100, 200, 300, and 500 Series switches.

Jun 20, 2026

What is 10 Gigabit Ethernet (10 GbE)?

It also eliminates the need for repeater hubs to connect multiple Ethernet devices and for port partition and collision detection. 10 GbE works with

Aug 05, 2025

SFP and SFP+ Connector System

Supporting 2.5 to 10 Gbps data rates for Gigabit Ethernet and Fibre Channel applications, Molex's SFP+ and SFP products ensure industry-wide compatibility.

Aug 07, 2025

Fiber Optic Network Switches | Ethernet to Fiber

VERSITRON manufactures a wide range of fiber optic switches that provide links for your 10Base, 100Base, 1000Base Gigabit, and 10 Gigabit networks

Oct 15, 2025

StarTech Gigabit Ethernet Fiber Media Converter

Link Fault Pass LFP supported Supports IEEE 802.1q Tag VLAN pass through 550m range on fiber optic interface 101001000 Mbps RJ45 port supports auto

Nov 19, 2025

What is Gigabit Ethernet (GbE)?

Gigabit Ethernet speeds are delivered by either copper or fiber optic cables. Fiber optic cables are needed for long-range transmissions of more than 300 meters (m). However, traditional

Jul 23, 2025

SFP-10G-LRM Fiber Channel SFP Gigabit Ethernet Transceiver

SFP-10G-LRM Fiber Channel SFP Gigabit Ethernet Transceiver 1310nm 220M Gezhi SFP-10G-LRM supports 10GBASE Ethernet and OTU2/OTU2e Hot-swappable input/output device that plugs into an

May 05, 2026

Fiber Optic Transceivers | SFP, QSFP & GBIC | High

Shop SFP, QSFP, and GBIC transceivers for Gigabit Ethernet over multimode and singlemode fiber. Hot-pluggable, scalable, and available in industrial and WDM

Jul 03, 2025

Understanding SFP Port: A Guide to Gigabit Ethernet

SFP ports support multiple data rates and interfaces, including Gigabit Ethernet, 10 Gigabit Ethernet, Fibre Channel, SONET/SDH, and more. They can

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