

10 Gigabit Optical Module for Gigabit Fiber Optics



AI Overview

10 Gigabit SFP+ optical transceivers provide high-speed fiber connectivity for both short- and long-range network applications, supporting singlemode and multimode fibers with hot-pluggable form factors and digital monitoring capabilities. Overview 10 Gigabit SFP+ modules are designed to deliver 10 GbE connectivity for data centers, enterprise networks, and service provider applications. They are compatible with standard SFP+ ports on switches, routers, and media converters, and adhere to IEEE 802.3z standards for Gigabit Ethernet fiber connectivity. These modules are ideal for extending LANs, connecting buildings, or establishing high-speed fiber links.

Types and Fiber Compatibility

- Multimode Fiber (MMF) SFP+ Modules:** Typically used for short- to medium-range connections, supporting distances from 26 meters up to 2 kilometers depending on fiber type (OM3 or OM4) and module specifications. Examples include Cisco 10GBASE-SR modules.
- Singlemode Fiber (SMF) SFP+ Modules:** Designed for long-distance links, supporting distances from up to 10 km or more. Modules like the Intellinet 10GBase-LR SFP+ are suitable for inter-building connections.

Key Features

- Hot-Pluggable Form Factor:** SFP+ modules can be installed or replaced without powering down the network device, ensuring uninterrupted traffic.
- Digital Diagnostics Monitoring (DDM/DOM):** Provides real-time monitoring of optical output power, input power, temperature, laser bias current, and supply voltage, allowing proactive network management.
- Interoperability:** Many SFP+ modules are MSA-compliant, ensuring compatibility across different vendors' switches and network equipment.
- High Density:** The small SFP+ form factor allows for maximum port density in network switches and data center racks.
- Performance and Distance**

Cisco 10GBASE-SR: Supports up to 300 meters on OM3 and 400 meters on...

Article Content

XGSPON ONU SFP+ 1270nm-TX/1577nm-RX 9.953G-TX/9.953G-RX

OverviewThe XGS-SFP-ONT-MAC-I is a high-performance optical transceiver module designed for 10-Gigabit-capable passive optical network (XGS-PON) deployments. It functions as an integrated

K6097: Specifications of the Fiber Gigabit Ethernet SFP, XFP, SFP+ ...

Topic The following specifications are for the available Fiber Gigabit Ethernet modules and the platforms that support those modules. Important: The end user must ensure suitability of

10GbE SFP+ Transceiver Modules

FS 10G SFP+ transceiver module solutions provide a wide variety of reliable 10 Gigabit Ethernet connectivity options for data centre, enterprise, and service

Cisco Optics | Transform Your Network

Get the highest quality, performance-leading optical transceivers for any network architecture. Find the transceiver model to fit your network.

10G SFP+ Transceivers – High-Performance Compatible Fiber

LINK-PP's 10G SFP+ transceivers provide industry-leading performance and reliability for high-speed network infrastructures, including data centers, enterprise networks, and telecom applications.

100 Gigabit Ethernet

The 40/100 Gigabit Ethernet standards encompass a number of different Ethernet physical layer (PHY) specifications. A networking device may support different PHY types by means of pluggable

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

10 Best Fiber Optic Media Converters (May 2026) Expert Reviews

Discover the best fiber optic media converters in 2026. Our experts tested 10 top models for reliability, performance, and value. Complete buying guide included.

Cisco SFP and SFP+ Transceiver Module Installation Notes

This installation note provides the installation instructions for the Cisco small form-factor pluggable (SFP) and SFP+ transceiver modules. These transceiver modules are hot-swappable

10 Gigabit Fiber SFP+ Optical Transceiver Module

Whether you need a fast connection to your 10-GbE-equipped server or NAS device, or if you simply want to connect two Gigabit switches in your data center

Ubiquiti Compatible XGSPON ONU SFP+ 1270nm-TX/1577nm-RX

Overview The XGS-SFP-ONT-MAC-I is an SFP+ transceiver module engineered for 10-Gigabit capable symmetric passive optical network (XGS-PON) systems. It utilizes bidirectional transmission over a

10G SFP+ Module BiDi Fiber Optic Transceiver LC

The SFP+ BiDi module features a highly reliable 1330nm DFB transmitter and 1270nm PIN photo-detector into LC Simplex optical connector, which provides

Cisco 10GBASE SFP+ Modules Data Sheet

Product overview The Cisco® 10GBASE SFP+ modules (Figure 1) give you a wide variety of 10 Gigabit Ethernet connectivity options for data center, enterprise wiring closet, and service provider transport

Optical Transceivers | Coherent

Get the pluggable module performance you need from the manufacturer of choice for all major networking equipment vendors worldwide.

StarTech 10 Pack Cisco GLC-SX-MM Compatible SFP Module (10

Home StarTech 10 Pack Cisco GLC-SX-MM Compatible SFP Module (10 Pack) - 1000BASE-SX - 1GbE Multimode Fiber MMF Optic Transceiver - 1GE Gigabit Ethernet SFP - LC 550m - 850nm -

10G SFP+ Optical Transceivers | Transceiver Module

FS 10GbE SFP+ module solutions provide a wide variety of 10 Gigabit Ethernet connectivity options for data centers, enterprise wiring closets, Internet Service

10 Gigabit SFP+ Fiber Optic Transceivers | High-Speed & Reliable

Our 10 Gigabit SFP+ transceivers are designed to provide high-speed fiber optic connectivity for network switches and media converters equipped with standard SFP ports. These transceivers offer speeds

Cisco 40GBASE QSFP Modules Data Sheet

Cisco QSFP-40G-CSR4 Cisco 40GBASE-CSR4 QSFP Modules extend the reach of the IEEE 40GBASE-SR4 interface to 300 and 400 meters on laser-optimized OM3, and OM4/OM5

10 Gigabit Optical Transceivers | SFP+ and XFP

Perle 10 Gigabit Optical Transceivers are interchangeable, compact media connectors and enable a single network device to connect to a wide variety of

Contact Us

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