

10 Gigabit Module Optical



Article Overview

10G SFP+ optical modules are high-speed transceivers that support 10 Gigabit per second data rates for fiber or copper connections in data centers, enterprise networks, and telecom applications.

Overview

A 10G SFP+ (Small Form-factor Pluggable Plus) optical module is an enhanced version of the standard SFP transceiver, optimized for 10Gbps connections while remaining backward-compatible with SFP slots. These modules are commonly used to connect switches, servers, and routers, providing high performance with low power consumption, typically under 1W.

Types and Transmission Media

- Multimode Fiber (SR): Short-range modules using 850 nm wavelength, supporting distances up to 300 meters.
- Single-mode Fiber (LR/ER/ZR): Long-range modules using 1310 nm (LR) or 1550 nm (ER/ZR) wavelengths, supporting distances from 10 km (LR) up to 80 km (ZR).
- Copper (Direct Attach Copper, DAC/AOC): For short-range connections, passive DAC supports up to 7 meters, while active DAC or AOC can reach 15 meters.
- Single-fiber Bidirectional (BIDI): Requires paired modules with different wavelengths for transmitting and receiving on a single fiber.

Connectors and Form Factor...

Article Content

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10 Gigabit Fiber SFP+ Optical Transceiver Module

10 Gigabit Connectivity Intellinet Network Solutions 10GBase-LR Fiber SFP+ Optical Transceiver Module, model 507479, is the right

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D-Link 10 Gigabit Ethernet Optical Transceiver Multimode ...

Buy D-Link 10 Gigabit Ethernet Optical Transceiver Multimode 10GBASE-SR SFP+ Module (DEM-431XT): Network Transceivers -

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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

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Optic Modules Datasheet

Features and Benefits The following table lists the different pluggable optic modules and supported platforms, along with the

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Cisco Transceiver Modules

Cisco Transceiver Modules - Learn product details such as features and benefits, as well as hardware and

May 19, 2026

10G Multi-Mode Optical Module

SFP+ transceiver that supports 10G connections up to 400 m using multi-mode fiber with a duplex LC UPC

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What Is 10GBASE-LR? SMF 1310nm 10km SFP+ Explained

10GBASE-LR is a 10-gigabit Ethernet optical standard that operates at 1310 nm over single-mode fiber (SMF), supporting link

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Cisco SFP Modules for Gigabit Ethernet Applications Data Sheet

This data sheet describes the benefits, specifications, and ordering information for the Cisco SFP Modules for Gigabit

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10 Gigabit Fiber SFP+ Optical Transceiver Module

10GbE SFP+ Transceiver Modules

FS 10G SFP+ transceiver module solutions provide a wide variety of reliable 10 Gigabit Ethernet

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Optical Transceivers Manufacturer

XFP (10G) 10Gtek 10G XFP transceivers include SR, LR, ER, ZR, CWDM, DWDM and BiDi series. Tunable XFP modules are

Mar 15, 2026

10 Gigabit Optical Transceivers | SFP+ and XFP Modules | Perle

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

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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

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Optics and Transceivers | Fiber Optical Transceivers

FS offers a growing portfolio of optical transceivers, with speed range from 100M, 1G, 10G, 25G, 40G, 50G, 100G, 200G, 400G to

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Cisco Optics | Transform Your Network

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

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Cisco 10GBASE SFP+ Modules Data Sheet

The Cisco® 10GBASE SFP+ modules (Figure 1) give you a wide variety of 10 Gigabit Ethernet connectivity options for data center,

Dec 09, 2025

XG-SFP-LR-SM1310 10GBASE-LR SFP+ 1310-nm 10-km DOM

XG-SFP-LR-SM1310 10GBASE-LR SFP+ 1310-nm 10-km DOM Duplex LC SMF Optical Transceiver Module Applicable to data

Jul 03, 2026

10 Gigabit Fiber SFP+ Optical Transceiver Module

10 Gigabit Connectivity Whether you need a fast connection to your 10 GbE equipped server or NAS device, or if you simply want to

Feb 10, 2026

Optical Transceivers

Optical transceivers have revolutionized data transmission, providing high-speed, long-distance, and secure data transmission

Feb 18, 2026

SFP modules – transceivers for 1/2/4G fibre channel

SFP – small form factor – pluggable modules for various optical data communications such as Fast Ethernet, Gigabit Ethernet, BiDi,

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10GE SFP+ Optical Modules

10GE-CWDM SFP+ Optical Modules 10GE-DWDM SFP+ Optical Modules 40GE QSFP+ Optical Modules Industrial Optical Modules

Jul 29, 2025

10G SFP+ – Optcore

10G SFP+ Transceiver Optcore 10G SFP+ transceivers are suitable for 10G Ethernet and fiber channel connectivity. They comply

Contact Us

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