10 Gigabit Long-Distance Optical Module



Overview

SFP-10GLR-31 is a 10-Gigabit SFP+ optical transceiver module designed for long-distance data transmission over single-mode fiber (SMF). These powerful transceivers are the workhorses that convert electrical signals into light, beaming 10 Gigabits per second of data over fiber optic cables for distances of up to 10 kilometers and beyond. Cisco SFP+ modules offer the following features and benefits. Among the many 10G optical modules used in enterprise and data-center networks, SFP-10GLR-31 is one of the most commonly deployed. FS 10GbE SFP+ module solutions provide a wide variety of 10 Gigabit Ethernet connectivity options for data centers, enterprise wiring closets, Internet Service Providers (ISPs) applications.

Article Content

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

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

SFP+ Single Mode LC Module (10km)

All TRENDnet 10G SFP+ fiber modules support connections for reliable, long-distance network applications. Long distance fiber networking for manufacturing,

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2-Pack 10G SFP+ Single Mode LC Module (10km)

TRENDnet''s 10G SFP+ Single Mode LC Modules enable reliable, long-distance network applications. Each 10G SFP+ transceiver supports high-speed data rate

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

XFP transceiver

XFP modules use an LC fiber connector type to achieve higher density. Principal applications include 10 Gigabit Ethernet, 10 Gbit/s Fibre Channel, synchronous optical networking (SONET) at OC-192

Gigabit Ethernet

It is practically identical to 1000BASE-LX, but achieves longer distances up to 10 km over a pair of single-mode fiber due to higher quality optics. Before it was

Transceiver Types for High-Speed Networking

□□ Transceiver Types at a Glance – The Backbone of High-Speed Networking! □□⚡ As network infrastructures continue to evolve, selecting the right transceiver module is essential for ...

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

Cisco 40GBASE QSFP Modules Data Sheet

The Cisco® 40GBASE QSFP (Quad Small Form-Factor Pluggable) portfolio offers customers a wide variety of high-density and low-power 40 Gigabit Ethernet connectivity options for

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 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.

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How Fibre Optics Transmits Data at Lightning Speeds

Key benefits of fibre optics at a glance: Speed: Supports gigabit and terabit data rates for fast data transmission Distance: Carries signals over very long distance links with minimal signal loss

Optical networks

An optical transport network is a high-speed communication system that sends light signals over fiber-optic cables to move large amounts of data across long

StarTech PEX10000SFP PCI Express 10 Gigabit Ethernet Fiber

The PEX10000SFP 10 Gigabit Fiber Network Card is a cost-effective solution that delivers fast and reliable 10 Gbps network access at longer distances than copper-based networks. Using the SFP+

The FOA Reference For Fiber Optics

Packaging Transceivers are usually packaged in industry standard packages like these XFP modules for gigabit datalinks (L) and Xenpak (R). The XFP modules connect to a duplex LC connector on the

100GBASE QSFP-100G Modules Data Sheet

QSFP-100G Optical modules Features and benefits of Cisco QSFP modules Hot-swappable input/output device that plugs into a 100G Gigabit Ethernet Cisco QSFP port.

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

DAC Twinax Cable Maker. CE, FCC, RoHS, ISO9001 Certified. Professional Manufacturer focusing on SFP+ Cables, QSFP+ Cables, MiniSAS Cables, QSFP Cables, XFP Cables, CX4 Infiniband Cables

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