

Single-core optical module 10G



AI Overview

A single-core 10G optical module is typically an SFP+ transceiver designed for 10 Gigabit Ethernet over single-mode fiber, supporting distances up to 10 km at 1310nm wavelength.

Overview

Single-core 10G optical modules, often in the SFP+ form factor, are hot-pluggable transceivers that convert electrical signals from switches or routers into optical signals suitable for single-mode fiber (SMF) transmission. They are widely used in data centers, enterprise networks, and telecom environments to provide reliable long-distance links with low latency and minimal signal loss .

Key Specifications

- Data Rate: 10 Gigabit per second (10G) for high-speed network connectivity .
- Wavelength: 1310 nm, optimized for long-distance single-mode fiber links .
- Reach: Up to 10 kilometers over single-mode fiber, suitable for campus or metro networks .
- Connector Type: LC duplex connectors, compatible with standard single-mode patch cords .
- Standards Compliance: IEEE 802.3ae (10GBASE-LR), SFF-8431, SFP+ MSA, and RoHS, ensuring interoperability across vendors .
- Power Consumption: Low, typically designed for energy-efficient operation .

Article Content

10G SFP+ Fiber - SFP+ Single Mode LC Module (10km)| TRENDnet

The single mode 10G SFP+ transceiver is equipped with a duplex LC fiber connection interface, and supports high-speed data rates

Optical Transceiver SFP+ 10G Single-Mode Module 1310nm 10km LC

Explore the features, applications, and selection guide for optical transceiver SFP+ 10G single-mode 1310nm 10km

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

The XG-SFP-LR-SM1310 is aligned to IEEE 10GBASE-LR optical specifications and supports a link length of up to 10 kilometers

Cisco 10GBASE SFP+ Modules Data Sheet

The Cisco SFP-10G-ZR-I is a multirate 10GBASE-ZR, 10GBASE-ZW, and OTU2/OTU2e module for industrial operating temperature

Optic Modules Datasheet

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

10 Gbps | Single Mode Fiber | LC | 10 km (6.2 mi) | Lifetime Warranty

Cisco SFP-10G-LR Compatible SFP+ Module - 10GBASE-LR - 10GbE Single Mode Fiber SMF Optic Transceiver - 10GE Gigabit

10G SFP+ ER SMF 1310nm 40km Transceiver Module

Featuring a built-in Semtec/Macom chip and reliable DFB laser from global leaders, the 10G SFP+ ER1310 module delivers low

SFP-10G-ER Explained: Powering 40km 10Gbps Optical Links

The SFP-10G-ER transceiver module is the proven, standards-based workhorse for extending 10 Gigabit Ethernet up

10GE SFP+ Optical Modules

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

SFP+ Transceiver 10G Single LC Module

GET brand new optical transceiver whit wholesale price at 10Gtek Store, 10G SFP+ (DOM, BiDi 10km SMF Single LC) modules

H!Fiber 10G Single Mode SFP+ LC Module, 10GBase-LR Fiber

10GBase-LR SFP+: 10 Gigabit Ethernet Single Mode SFP+ Module, 10 Gb/s, 1310nm wavelength, Duplex Dual LC,

Single Mode 10G SFP+ Module: Price, Types & Buying Guide

Explore single mode 10G SFP+ modules, including LR, ER, and ZR types. Compare prices, distances, and compatibility to choose

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

10G Single-Mode Optical Module

SFP+ transceiver that supports 10G connections up to 10 km using single-mode fiber with a duplex LC UPC connector.

10G Bidirectional Single-Mode Optical Module

SFP+ transceiver that supports 10G connections up to 10 km using single-mode fiber with a simplex LC

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

TRENDnet's 2-Pack 10G SFP+ Single Mode LC Modules are compatible with standard SFP+ ports found on network switches and

U®Fiber Modules and FiberCable Datasheet

For long-distance single-mode runs, use the UF-SM-10G for distances of up to 10 km at 10 Gbps, or use the UF-SM-1G for distances

Contact Us

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

Website: <https://roof-repairs-johannesburg.co.za>

Email: info@roof-repairs-johannesburg.co.za

Phone: +27 63 592 4187

Address: 2nd Floor, The Leonardo, 75 Maude Street, Sandton, Johannesburg, 2196, South Africa

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

