

Single-core single-mode 10 Gigabit optical module



Article Overview

10G single-mode SFP+ optical modules include LR, ER, ZR, and BiDi types, designed for long-distance transmission over single-core fiber.

Overview of Single-Mode 10G SFP+ Modules

Single-mode 10G SFP+ modules are optimized for long-distance fiber optic communication using a single-core fiber strand. They are widely used in data centers, enterprise backbones, and metro networks due to their ability to support high-speed 10 Gigabit Ethernet over extended distances .

Common Types and Specifications

- 10GBASE-LR (Long Reach): Operates at 1310 nm, supports distances up to 10 km, and uses a distributed feedback (DFB) laser for reliable single-mode transmission .
- 10GBASE-ER (Extended Reach): Operates at 1550 nm, supports distances up to 40 km, and uses an externally modulated laser (EML) for ultra-long-haul applications .
- 10GBASE-ZR: Also operates at 1550 nm, designed for very long distances up to 80 km, suitable for metro and long-haul networks .
- SFP+ BiDi (Bidirectional): Transmits and receives data over a single strand of single-mode fiber using different wavelengths for each direction, effectively reducing fiber usage by 50%. Typical deployment distances include 10 km, 20 km, and 40 km .

Key Features

Article Content

SFP+ 10G ER transceiver singlemode 1550nm 40Km, Cisco compatible

The SFP-1040-ER is a long haul single-mode 10G SFP+ optical module compatible with the 10GBase-ER specifications. It uses a

HPE Aruba S0G21A SFP+ 10GBASE-LR Singlemode Transceiver

S0G21A 10GBASE-LR SFP+ transceiver with LC Duplex connection according to MSA standards compatible with

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

10G CWDM Single-Mode Optical Module

SFP+ transceiver for CWDM that supports 10G connections up to 20 km using single-mode fiber with a

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

SFP3213-10: 10 Gigabit SFP Module for Switches

The transceiver provides 10 Gbps serial optical data transfer rates on a single duplex fiber core up to

SFP+ 10GBase-LR 1310nm SingleMode Module, 10G LC SMF Fiber Optic ...

10Gbps 1310nm SFP to LC Single Mode Transceiver Module The SFP 10GBase-LR module stands out with its

optical transceiver sfp+ 10g single mode module 1310nm 10km lc

Upgrade networks with our optical transceiver sfp+ 10g single mode module 1310nm 10km lc. This LC transceiver delivers effortless

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

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

10Gtek 10GBase-LR SFP+ Transceiver, 10G 1310nm SMF

10Gtek 10GBase-LR SFP+ Transceiver, 10G 1310nm SMF SingleMode LC Fiber Optic Module, up to 10km, for Cisco

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, SMF, link single

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

The Optical Transceiver SFP+ 10G Single-Mode Module 1310nm 10km LC is a high-performance, compact

Huawei SFP-10G-LR 10G SFP+ 1310nm 10km Single-Mode Optical

Huawei SFP-10G-LR 10G SFP+ 1310nm 10km single-mode LC module for enterprise and carrier networks. Check real-time Huawei

10G SFP+ - Optcore

10G SFP+ Transceiver Optcore 10G SFP+ transceivers are suitable for 10G Ethernet and fiber channel

Best 10G BIDI SFP+ Module Optical Network Transceiver Single Mode ...

10G BIDI SFP+ Optical Transceiver Single Mode Module 40km for Networking Switches The 10 Gigabit SFP + optical transceiver is

10GE SFP+ Optical Modules

Single-fiber bidirectional (BIDI) optical modules must be used in pairs. For example, SFP-10G-BXU1 must be used with SFP-10G-BXD1.

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

This comprehensive guide dives deep into the SFP-10G-ER optical transceiver module.

Gigabit single-mode single-core fiber optic module

Gigabit single-mode single-core optical fiber modules usually have the following specifications: multi-mode 550m,

Optic Modules Datasheet

4 Optic Modules Data Sheet ... SFP (form factor) = small form-factor pluggable transceiver SMF (media) = single-mode fiber-optic

10 Gigabit Singlemode SFP+ Fiber Optic Transceivers

The 10 Gigabit Singlemode SFP+ Transceivers provide high-performance, reliable connectivity for modern

UniFi 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.

Cisco Transceiver Modules

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

10Gtek 10 Gigabit SFP+ LC Single-Mode Transceiver, 10GBASE-LR Module ...

10Gtek 10 Gigabit SFP+ LC Single-Mode Transceiver, 10GBASE-LR Module for Cisco SFP-10G-LR, Meraki, Ubiquiti

10Gtek 10GBase-LR SFP+ Transceiver, 10G 1310nm SingleMode

Product Summary: 10Gtek 10GBase-LR SFP+ Transceiver, 10G 1310nm SingleMode LC Fiber Optic

Contact Us

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

Website: <https://www.e-motional.eu>

Email: info@e-motional.eu

Phone: +49-30-657-8924

Address: Friedrichstraße 101, 10117 Berlin, Germany

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