

Gigabit Single-Mode Optical Module Single Core



Article Overview

A Gigabit single-mode single-core optical module is a hot-pluggable transceiver that supports 1Gbps Ethernet over single-mode fiber, typically with transmission distances ranging from 10 km to 120 km depending on wavelength and module type.

Key Specifications

Data Rate: These modules operate at 1Gbps (1.25Gbps nominal), compatible with Gigabit Ethernet, 1G Fiber Channel, and SDH networks, and are backward compatible with lower speeds like 100Mbps for legacy systems . **Wavelength:** Common single-mode wavelengths include:

- 1310 nm: Suitable for medium distances up to 40 km, with moderate loss and low dispersion .
 - 1550 nm: Optimized for long-distance transmission above 40 km, capable of reaching up to 120 km without repeaters .
- Transmission Distance:** Depending on the module and fiber quality, single-mode single-core modules can cover:
- 10 km (standard LX/LH SFP)
 - 40 km, 80 km, or 120 km for long-haul applications .
- Interface Type:**
- SFP modules: LC connectors
 - GBIC modules: SC connectors
 - Some single-fiber BiDi modules use a single strand with wavelength separation for transmit and receive channels .
- Laser and Optical Power:**
- Modules use semiconductor lasers to emit light, with transmit optical power and r...

Article Content

DIGITUS Gigabit SFP Modul Singlemode LC Simplex 1310/1550nm

DIGITUS Gigabit SFP Modul, Mini GBIC, Singlemode, LC Simplex (BiDi), Tx 1310nm / Rx 1550nm, 20 km, 1.25 Gbit/s - Kostenloser

Cisco Transceiver Modules

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

Gigabit SFP Module: A Complete Guide to 1G SFP Transceivers

Learn what a gigabit SFP module is, how it works, main types, key specifications, and common use cases to choose the right 1G

Cisco SFP Modules for Gigabit Ethernet Applications

The 1000BASE-ZX SFP operates on standard single-mode fiber-optic link spans of up to approximately 70 km in length. The SFP

Syrotech 20KM 1.25G 1310 Single Mode Single Fiber SFP Module

Syrotech 20KM 1.25G 1310 Single Mode Single Fiber SFP Module - Pair Made with heavy-duty material and crafted to perfection,

H!Fiber 1.25G Single Mode SFP LC Module, 1000Base-LX/LH Fiber

About this item 1000Base-LX/LH SFP: Gigabit Single Mode SFP Module support 1.25 Gb/s data rates, 1310nm wavelength, SMF;

Understanding Single-mode and Multi-mode SFP Optical Modules

A SFP single-mode optical modules and SFP multi-mode optical modules are incompatible. If you mix SFP single-mode optical

Gigabit SFP Module: A Complete Guide to 1G SFP Transceivers

1000BASE-LX SFP for single-mode fiber transmission 1000BASE-BX SFP for single-fiber BiDi communication 1000BASE-T SFP for

Single Mode SFP Fiber Module

Single Mode SFP Fiber Module is a cost effective way to connect a single network device to a wide variety of fiber cable distances

SFP Gigabit Transceivers Singlemode Single-Strand BiDi

Discover SFP Gigabit single-strand BiDi modules for 20Km with SC connector. Cisco compatible - buy now for efficient fiber links!

Multi-mode optical fiber

Multi-mode optical fiber is a type of optical fiber mostly used for communication over short distances, such as within a building or on a

Understanding Single-mode and Multi-mode Optical Modules and Optical ...

Conclusion: In conclusion, single-mode and multi-mode optical modules and fibers serve distinct purposes in sfp optical module

DIGITUS Gigabit SFP Modul, Mini GBIC, Singlemode, LC Duplex

DIGITUS Gigabit SFP Modul, Mini GBIC, Singlemode, LC Duplex, 1310 nm, 20 km, 1.25 Gbit/s - Kostenloser Versand ab 29€. Jetzt

Contact Us

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

Website: <https://www.gmarkconstruction.co.za>

Email: sales@gmarkconstruction.co.za

Phone: +31-6-15-38-72-94

Address: Herengracht 456, 1017 BS Amsterdam, Netherlands

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