



Gigabit Single-Mode Optical Module Distance Specifications

Preview

Our 1 Gigabit Singlemode SFP Transceivers offer high-performance, reliable connectivity for singlemode fiber optic networks. Learn its technical specs, compare it to other optics (like SX), understand key applications, and discover why choosing reliable brands like LINK-PP ensures network. The industry-standard Cisco Small Form-Factor Pluggable (SFP) Gigabit Interface Converter (Figure 1) links your switches and routers to the network. The hot-swappable input/output device plugs into a Gigabit Ethernet port or slot. Optical and copper models can be used on a wide variety of Cisco. Currently, there are four commonly used data transmission bits per second (unit: bps): 155Mbps, 1. Transfer rates are generally backward compatible. Therefore, the 155M optical module is also called FE (100M) optical module, and the 1. These transceivers are engineered for long-distance applications, supporting distances from 10 km to 180 km depending on the model and wavelength. They are compatible with a. The MOXA SFP-1GLXLC is a high-quality single-mode SFP optical port module designed to enable long-distance communication across industrial networks. With a reach of up to 10 kilometers, the SFP-1GLXLC allows you to extend your network connectivity over fiber optics, making it an essential component. At their core, 1G SFP modules are small optical or electrical transceivers that conform to 1000BASE Ethernet standards.

Optical Network Application/Usage	Data Networking	Total Number of Ports	1 Connector Type	LC Interfaces/Ports Details
1 x LC Duplex	10GBase-LR70	Network Media Type Supported	Optical Fiber	

Therefore, the 155M optical module is also called FE (100M) optical module, and the 1.25G optical module is also called GE (gigabit) optical module. This is the most widely used module in

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 of up to 3 km at 1 Gbps. To protect DC power and fiber, deploy

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The SFP-1G-SX module is a proven, reliable, and cost-effective solution for 1 Gigabit short-range fiber optic connectivity. Understanding its

Complete guide to Cisco SFP-10G-LR module specs, 10GBASE-LR standard compliance, 1310nm laser operation, and EDGE Optic compatibility details.

Selecting the appropriate 800G optical module for your network involves considering several key factors,



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including package type, distance, single mode or multimode fiber, power

Features: Single mode single fiber LC port | 1310 nm sending, and 1550 nm receiving | Transmission distance up to 20 km |

Data Sheet datasheet is intended to guide the user through the various options available when choosing an optic module for a given platform depending on the architecture.

Description The SFP1G-LH-31 series single-mode transceivers are small form factor pluggable module for bi-directional serial optical data communications such as Gigabit Ethernet 1000BASE-LX and

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

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

The SFP provides an optical link budget of 21 dB, but the precise link span length depends on multiple factors such as fiber quality, number of splices, and connectors. When shorter distances of Single

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SFP-LX20 Specifications 1Gb/s 1000Base-LX Ethernet Hot-pluggable SFP footprint Duplex LC connector RoHS compliant and Lead Free

Features and Benefits The following table lists the different pluggable optic modules and supported platforms, along with the technical specifications for each.

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