

Article Overview

Popular brands for 1G single-mode SFP optical modules include Cisco, LINK-PP, and FS, offering reliable, hot-swappable transceivers for distances up to 10 km or more.

Key Brands and Vendors

- o Cisco: Offers a wide range of 1G SFP modules compatible with 1000BASE-LX/LH, 1000BASE-BX10, and other single-mode standards. Cisco modules support Digital Optical Monitoring (DOM) and are designed for enterprise and industrial environments, with operating ranges up to 40 km for certain models .
- o LINK-PP: Known for high-quality third-party SFP-1G-LX modules, LINK-PP provides reliable single-mode transceivers for distances up to 10 km. Their modules are MSA-compliant, hot-pluggable, and compatible with major switch brands like Cisco, Juniper, and HPE .
- o FS (Fiberstore): Offers a broad selection of 1G SFP transceivers for single-mode fiber, including 1000BASE-LX and BIDI modules. FS modules support DOM, multiple wavelengths (1310 nm, 1490 nm, 1550 nm), and are rigorously tested for compatibility and environmental reliability .

Technical Considerations

- o Standards: Ensure the module supports IEEE 802.3z 1000BASE-LX/LH or 1000BASE-BX10 for single-mode fiber.
- o Distance: Standard LX modules typically reach up to 10 km, while BX and extended-range modules can reach 40 km or more .
- o Wavelengths: Common single-mode wavelengths include 1310 nm for LX and 1490/1550 nm for BIDI modules .
- o Form Factor: SFP (Small Form-factor Pluggable) modules are hot-swappable and compatible with most switches and routers.
- o DOM Support: Digital Optical Monitoring allows real-time tracking of optical power, temperature, and voltage, improving network reliability .

Applications

- o Campus or industrial network interconnects
 - o Service provider access networks
 - o Long-distance switch interconnects
 - o Wireless backhaul and security systems
- Choosing a reputable brand ensures compatibility, reliability, and long-term performance, reducing the risk of link failures and maintenance issues. Cisco, LINK-PP, and FS are widely recognized for delivering high-quality 1G single-mode optical modules suitable for enterprise and



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service provider networks.

Gigalight's 1.25G SFP series transceiver modules are widely utilized in Gigabit Ethernet, concurrently

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

Compatibility in your network is everything, and this industrial SFP Transceiver Module delivers. Use it with

The Hirschmann line has a variety of transmitter and receiver options available, allowing users to choose the correct transceiver for

FS offers a growing portfolio of optical transceivers, with speed range from 100M, 1G, 10G, 25G, 40G, 50G, 100G, 200G, 400G to

TRENDnet's SFP Single Mode LC Module, model TEG-MGBS20, is compatible with standard SFP slots found on network switches

WDM (bi-directional wavelength division multiplexing) Technology Advantage The Intellinet Network

They are from companies such as DELL, Huawei, ZTE, Lenovo and Inspur, as well as companies such as Oracle Bone Inscriptions,

Gigabit Single-Mode 10km Optical Module Specification

Cisco GLC-LH-SMD Compatible SFP Module - 1000BASE-LH - 1GbE Single Mode Fiber SMF Optic Transceiver - 1GE Gigabit

JTOPTICS's 1Gb/s transceiver module supports up to 20km link lengths over LC duplex SMF fiber. Featuring low power

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

Moxa's small form-factor pluggable transceiver (SFP) Ethernet fiber modules provide 10 Gigabit, Gigabit, and Fast Ethernet in order

SFP transceivers are valued for their flexibility, low power consumption and ability to support both single



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

10 Gigabit Fiber SFP + (LC) Single-Mode Optical Transceiver Module The new line of

Web: <https://www.in-au.co.za>

