

## How to determine if it is a 100Mbps optical module



### Overview

Choose the right 100M optical transceiver by checking compatibility, fiber type, wavelength, distance, data rate, connector, and reliability. This guide will demystify the key selection criteria— Single-mode vs. Dual-fiber —to empower you to make an informed, optimal decision for your specific application. This stops network problems and keeps things. BIDI optical modules must be used in pairs. Selecting the right SFP (Small Form-Factor Pluggable) module is crucial for ensuring optimal performance and reliability in your Ethernet fiber optic network. These transceivers typically inserted into switches or media converters handle data transmission by converting electrical signals to optical. Understand the core function, compare data rates (1G to 25G), learn critical compatibility rules, and follow our 5-step checklist for selecting the perfect SFP optical module for your network build.

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Read the definitive 2026 guide on SFP modules. We explain Single Mode vs Multimode, DDM diagnostics, and how to choose the right transceiver for Cisco, Juniper, and more.



BIDI optical modules must be used in pairs. For example, SFP-FE-LX-SM1550-BIDI must be used with SFP-FE-LX-SM1310-BIDI.



100 Megabit SFP optical transceiver modules use LC connectors. The 100FX transceivers enabled by Aruba Switches use an SGMII (Serial Gigabit MII) interface with 8B/10B encoding. Other 100FX ...



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Both modules operate at 100Mbps, but the transmission media differs. The decision between fiber (FX) and copper (TX) depends primarily on distance, interference environment, and grounding conditions.



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Optical interface and performance: The MSA outlines key optical parameters, including transmitter wavelength, receiver sensitivity, optical budget, and the range of supported data rates ...



The 100FX SFP module for fast Ethernet (FE) ports provides a 100-Mbps optical link using LC connectors and 1310-nm MMF (multimode fiber) cable. The maximum transmission distance for this ...



By checking module health, compatibility, and digital diagnostics, you can quickly confirm correct installation, detect optical problems, and maintain accurate hardware inventory.



Discover how to choose the right SFP module for your fiber optic network in 5 key steps: compatibility, environment, fiber type, wavelength, and data rate.

## Contact Us

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