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100Mbps Single-Mode Optical Module Interface Type



Overview

100BASE FX SFP: Complete Guide to 100Mbps Fiber TransceiversIn summary, a 100BASE FX SFP combines the Fast Ethernet 100BASE-FX fiber standard with the flex.

Key Takeaways

A 100Mbps single-mode SFP module typically operates at 1310nm wavelength, uses an LC connector, supports link distances up to 10 km, and is hot-swappable for Fast Ethernet ports.Key Specifications

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Wavelength and Fiber Type: Most 100Mbps single-mode SFP modules operate at a 1310nm wavelength over single-mode fiber (SMF), providing long-distance connectivity up to 10 km via LC connectors (FS SFP-100LX-31-I) . Connector Type: Standard modules use LC duplex connectors, ensuring compatibility with most single-mode fiber cabling infrastructures . Data Rate: Supports 100Mbps Fast Ethernet (100BASE-FX) and is compatible with dual-rate Fast/Gigabit Ethernet ports on switches and routers . Hot-Swappable: Modules are hot-swappable, allowing installation or replacement without powering down the network device, which is critical for minimizing downtime . Digital Diagnostic Monitoring (DDM): Many modules support DDM, providing real-time monitoring of optical output power, input power, temperature, and voltage for network management . Power Consumption: Typically low, around ≤1W, suitable for both indoor and industrial deployments . Standards Compliance: Compliant with IEEE 802.3u 100BASE-FX standards and MSA (Multi-Source Agreement) for SFP modules, ensuring interoperability across different vendors . Industrial and Enterprise Use: Certain models are rated for industrial temperature ranges and are suitable for outdoor or harsh environments, while standard modules are optimized for enterprise LAN, SAN, and ISP networks . Interoperability: Certified to work with major network equipment brands such as Cisco, Arista, Juniper, and Brocade, ensuring reliable performance across heterogeneous networks .

Summary

A 100Mbps single-mode SFP module provides reliable, long-distance fiber connectivity with low power consumption, hot-swappable design, and compliance with IEEE 100BASE-FX standards. It is ideal for enterprise, ISP, and industrial applications requiring up to 10 km link distances over single-mode fiber using LC connectors, with optional DDM support for network monitoring .

Article Content

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In summary, a 100BASE FX SFP combines the Fast Ethernet 100BASE-FX fiber standard with the flexible SFP form factor, providing

Complete Guide to Choosing the Right 100M Optical

Choose the right 100M optical transceiver by checking compatibility, fiber type, wavelength,

100 Mbps | Single Mode Fiber | LC | 10 km (6.2 mi) | Lifetime Warranty

THE IT PRO''S CHOICE: Designed and built for IT Professionals, this SFP module is backed for life (lifetime of module, not network

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SFP Transceiver

It uses LC connectors, operates at a 1310nm wavelength, and supports long-distance data transmission up

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

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The SFP transceiver module supports a maximum distance of up to 10 km (6.2 mi) and delivers

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100 Megabit SFP optical transceiver modules use LC connectors. The 100FX transceivers enabled by Aruba Switches use an SGMII

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Single-mode optical fiber

In fiber-optic communication, a single-mode optical fiber, also known as fundamental- or mono-mode, is an optical fiber designed

Understanding Single-mode and Multi-mode SFP Optical Modules

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

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A single mode SFP transceiver is a hot-swappable optical module designed to transmit and receive data over single mode fiber

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This article provides technical data on Fiber Transceivers and stacking accessories compatible with Meraki devices.

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The SFP transceiver module is not standardized by any official standards body but rather by a multi-source agreement

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MFB-F60 Single Mode, 100Mbps SFP Fiber Transceiver

SFP Fiber Transceiver PLANET''s 100Mbps Fast Ethernet SFP Fiber Transceiver utilizes a wavelength of

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What Is an SFP Optical Module? Guide | PHILISUN

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GLC-FE-100LX-RF

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Small Form-factor Pluggables

Small Form-factor Pluggables (SFPs) are a generic mechanical interface found on various Clear-Com devices and are a widely

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