

RIVO MULTITRADE OPTICAL SYSTEMS

SFP 100Mbps Optical Module



Overview

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

Key Takeaways

A 100Mbps SFP optical module enables reliable fiber-optic connectivity at 100 megabits per second, extending network reach, improving noise immunity, and supporting legacy or industrial Ethernet systems.

Overview
A 100Mbps SFP (Small Form-factor Pluggable) optical module is a compact, hot-pluggable transceiver that converts electrical Ethernet signals into optical signals for transmission over fiber and vice versa . It is designed to support Fast Ethernet (100BASE-FX) over multimode or single-mode fiber, typically operating at a 1310nm wavelength and supporting distances up to 2 km for multimode fiber and up to 10 km for single-mode fiber . This module allows network devices such as switches, routers, and media converters to flexibly adapt to fiber connections without replacing the entire hardware.

Key Functions and Advantages

- **Noise Immunity:** Fiber optics are immune to electromagnetic interference (EMI) and radio-frequency interference (RFI), making 100Mbps SFP modules ideal for industrial environments with high electrical noise .
- **Extended Reach:** Unlike copper Ethernet, which is limited to 100 meters, fiber SFP modules can transmit data over several kilometers, supporting long-distance connections in campuses, factories, and control systems .

- **Security:** Fiber-optic links are difficult to tap without detection, providing a more secure communication channel .
 - **Legacy System Integration:** They are suitable for upgrading older industrial control systems, SCADA networks, and surveillance systems without overhauling the entire infrastructure .
 - **Hot-Swappable Flexibility:** The SFP interface allows modules to be replaced or upgraded without powering down the network device, minimizing downtime .
- Applications

100Mbps SFP modules are widely used in:

- **Industrial Networking & Automation:** Connecting PLCs, sensors, and control systems across factory floors with high EMI .
- **Surveillance and Security Networks:** Reliable transmission of camera feeds and monitoring data over fiber .
- **Campus and Enterprise Backbones:** Extending Fast Ethernet links between buildings or network segments .
- **Telecom and Utility Networks:** Supporting mission-critical operations where stability and reliability are more important than high throughput .

Deployment Considerations

- Verify that the network device supports SFP modules and has available SFP slots.
- Choose the appropriate fiber type (single-mode or multimode) based on distance requirements.
- Insert the module into the SFP slot and connect the fiber cable using LC connectors.
- Monitor link status and performance using the device's management interface to ensure proper operation .

Summary

While modern networks often use Gigabit or higher-speed optics, 100Mbps SFP optical modules remain essential for specialized applications where reliability, long-distance transmission, and EMI resistance are critical. They provide a cost-effective, flexible solution for maintaining legacy systems, industrial automation, and secure fiber connectivity .

Article Content

100BASE FX SFP: Complete Guide to 100Mbps Fiber Transceivers

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

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

100% MSA UNCODED SFP TRANSCEIVER: Designed, programmed and tested to work with compatible MSA Compliant switches

100Mbps SFP Optical Modules

Power Modules Fan Modules Storage Devices Optical/Electrical Modules Before You Start 100Mbps SFP Optical Modules 1Gbps

OSDSFP100

The OSDSFP100 is an Industrial 100BaseX SFP Plugin Module compliant with IEC60825-1 to be used with Fast Ethernet SFP ports.

100Mbps SFP Transceiver Modules

Through our partner, Metromatics provide 100Mbps SFP Modules designed for Ethernet network applications that require data

Complete Guide to Choosing the Right 100M Optical Transceiver

In the vast ecosystem of network infrastructure, the humble 100M optical transceiver (or 100M SFP module) remains a

Cisco Fast Ethernet SFP Modules

Cisco Fast Ethernet SFP Modules Overview Cisco offers a range of Fast Ethernet SFP Interface Converters. The product portfolio

SFP-100M Series

The AMG SFP-100M series are industrial 100Mb Ethernet SFP's offering support for multiple cable types including copper (Cat5 or

100M SFP Modules for Sale | Antaira Technologies

Our cost-effective 100M SFP modules deliver high-performing serial optical data communication capabilities that are specified for a

SFP Optical Transceiver Products | Syrotech Networks

An SFP (Small Form-Factor Pluggable) is a compact, hot-pluggable transceiver used in telecommunications and data networks for

SFP modules – transceivers for 1/2/4G fibre channel

SFP – small form factor – pluggable modules for various optical data communications such as Fast Ethernet, Gigabit Ethernet, BiDi,

StarTech MSA Uncoded Compatible SFP Module

About this item MSA UNCODED SFP TRANSCEIVER: Designed, programmed and tested to work with compatible MSA compliant

100 Mbps | Multi Mode Fiber | LC | 2 km (1.2 mi) | Lifetime Warranty

Cisco GLC-FE-100FX Compatible SFP Module - 100BASE-FX - 100Mbps Multimode Fiber MMF Optic Transceiver - 100 Mbps - LC

100M SFP Transceiver Modules Data Sheet | FS

Featuring low power consumption, the hot swappable 100BASE SFP transceiver is ideal for Internet Service Provider

The Ultimate Guide to SFP Modules (2026): Types, Speeds

What is an SFP? SFP (Small Form-factor Pluggable) is a compact, hot-pluggable network interface module used to connect network

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