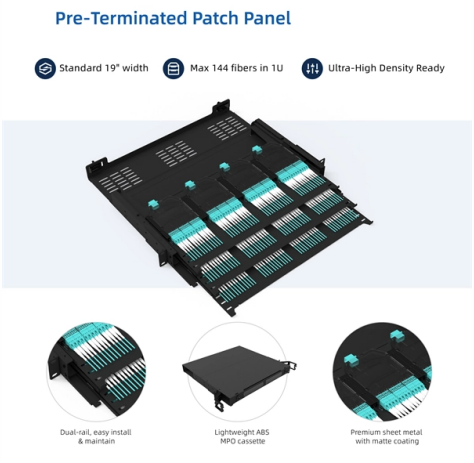
Gigabit Multimode Fiber Optic Module for Switches



Overview

Cisco MGE SFP Modules Cisco Small Business Network Accessorieseasy-to-install modules that provide a simple way to add fiber connectivity or an extra Gigab.

Key Takeaways

Gigabit multimode fiber optic modules (SFPs) enable high-speed 1 Gbps connections over multimode fiber, supporting distances from 275 m to 1 km depending on fiber type and optimization.

Overview

Gigabit multimode fiber SFP (Small Form-Factor Pluggable) modules are hot-swappable transceivers that plug into compatible switch ports to provide fiber connectivity. They are widely used in enterprise, industrial, and data center networks to extend Ethernet over multimode fiber while maintaining high reliability and flexibility.

Key Specifications

Connector Type: Most modules use LC duplex connectors for multimode fiber. Supported Fiber Types: OM1 (62. 5/125 µm): Up to 275 mOM3 (50/125 µm, laser-optimized): Up to 550 mOM4 (50/125 µm, laser-optimized): Up to 1,000 m Data Rate: 1 Gbps (Gigabit Ethernet)Hot-Swappable: Allows replacement or upgrades without powering down the switch.

Digital Optical Monitoring (DOM): Some modules support DOM for real-time monitoring of optical parameters.

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Compatibility

Switch Types: Compatible with fully managed, smart, and industrial switches that have SFP slots. Standards Compliance: Modules typically comply with IEEE 802. 3z 1000BASE-SX for multimode fiber.

Industrial Options: Certain SFPs are rated for extended temperature ranges (-40°C to 85°C) for harsh environments.

Deployment Considerations

Distance Planning: Choose the module based on fiber type and required link distance. Laser-optimized OM3/OM4 fibers allow longer reach. Interoperability: Ensure the SFP module is compatible with the switch vendor and model.

Many vendors, including Cisco, Netgear, Moxa, and Aruba, provide verified modules. Port Flexibility: SFP modules allow a “pay-as-you-populate” approach, enabling mixed media (copper and fiber) on a per-port basis. Industrial vs Commercial: Industrial-grade modules are recommended for outdoor or extreme temperature environments, while commercial-grade modules suffice for standard office or data center conditions.

Recommended Vendors

Cisco: Offers 1000BASE-SX SFPs for multimode fiber with DOM support and industrial temperature options. Netgear: ProSAFE GBIC modules support OM1, OM3, and OM4 multimode fibers with distances up to 1 km. Moxa: Provides a range of SFP modules for Gigabit Ethernet with coverage across various distances.

Aruba/HPE: Gigabit SFP optical transceivers with LC connectors, supporting multiple switch revisions. Versitron: Offers managed and unmanaged fiber switches with SFP ports for multimode fiber deployment. These modules are essential for extending Ethernet networks over fiber, providing high-speed, reliable, and flexible connectivity for enterprise and industrial applications.

Article Content

Cisco MGE SFP Modules Cisco Small Business Network Accessories

easy-to-install modules that provide a simple way to add fiber connectivity or an extra Gigabit Ethernet port to your Cisco 100, 200, 300, and 500 Series switches.

Cisco SFP Modules for Gigabit Ethernet Applications

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

2 Pack of SFP Transceiver Multimode Gigabit Mini-GBIC Module

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2 Pack of SFP Transceiver Multimode Gigabit Mini-GBIC Module Bundle with 1 Meter OM3 LC to LC Fiber Patch Cable, 1000Base-SX Compatible for Netgear AGM731F.

AGM731F | Modules and Accessories | Switches

The AGM731F ProSAFE® SFP 1G fiber module features an LC duplex connector and meets SFP GBIC standards for use in any compatible slot. Ideal for short

Fast, Gigbit, and 10 Gigbit Ethernet Switches with SFP+ Modules

Managed and unmanaged Layer 2 and Layer 3 fiber optic Ethernet switches. With 10G SFP+ fiber optic transceiver modules, they meet your highest bandwidth demand.

Fiber Optic Transceivers | SFP, QSFP & GBIC | High

Our Gigabit SFP Transceivers are designed for Gigabit Ethernet transmission and are ideal for short-range multimode and long-range singlemode fiber

Gigabit Multimode SFP 1000Base-SX LC Fiber Module, 850nm

Widely used in fiber switches, routers, NIC, server or other fiber optic equipments with 1Gbps SFP ports. SFP MSA Compliant, IEEE 802.3ab Compliant.

Fiber SFP module for TCSESM switches

Schneider Electric USA. TCSEAAF1LFU00 - Fiber SFP module for TCSESM switches - 1000BASE-SX, multimode.

10G SFP+ Transceiver for OM3/OM4 Fiber

Power your switch with a 10G SFP+ transceiver for OM3/OM4 fiber. AXM761 gives short-range fiber up to 550m and fast install. Upgrade your uplink today.

SFP-M Gigabit Fiber SFP Transceiver, Multi Mode 550M | Antaira

Antaira offers a wide range of Gigabit SFP modules for fiber and copper connections including multi-mode and single-mode solutions with a range of up to 120 Km.

StarTech Cisco SFP-10G-SR-S Compatible SFP+ Module

StarTech Cisco SFP-10G-SR-S Compatible SFP+ Module - 10GBASE-SR - 10GbE Multimode Fiber MMF Optic Transceiver - 10GE Gigabit Ethernet SFP+ - LC 300m - 850nm - DDM Cisco Firepower,

StarTech 10 Pack Cisco GLC-SX-MM Compatible SFP Module

StarTech 10 Pack Cisco GLC-SX-MM Compatible SFP Module (10 Pack) - 1000BASE-SX - 1GbE Multimode Fiber MMF Optic Transceiver - 1GE Gigabit Ethernet SFP - LC 550m - 850nm - DDM

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Orange lightning ⚡ Th tanghu gigabit fiber optic patch cord ...

Don''t push it! this orange "engineering grade" fiber optic patch cord - th tanghu sc-sc gigabit multi-mode dual-core, uses 3mm thick pvc sheath + ceramic ferrule + telecommunications

100 Gigabit Ethernet

The 40/100 Gigabit Ethernet standards encompass a number of different Ethernet physical layer (PHY) specifications. A networking device may support different PHY types by means of pluggable

10 Gigabit Ethernet

10 Gigabit Ethernet Router with two dozen 10 Gigabit Ethernet ports and three types of physical-layer module 10 Gigabit Ethernet (10GE, 10GbE, or 10 GigE) is a

SFP & SFP+ Modules for Fiber Optic Networks | WLAN-Shop24

Bring fiber optic speed to your network! With SFP (Small Form-factor Pluggable) and SFP+ modules, you can equip your switches and routers with the appropriate connections for fiber optic cables.

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