Huawei SFP Optical Module Multimode



Overview

Huawei switches support optical modules of the following encapsulation types: CFP, QSFP+, QSFP28, XFP, SFP, eSFP, and SFP+. All optical modules are hot swappable.

Key Takeaways

Huawei multimode SFP modules are high-performance optical transceivers designed for short-distance data transmission over multimode fiber, supporting data rates from 100 Mbps to 25 Gbps depending on the model.

Overview

Huawei multimode SFP (Small Form-factor Pluggable) modules are used to connect switches, routers, storage systems, and other network devices via multimode fiber. They are designed for short-distance optical communication, typically ranging from 100 meters to 300 meters, depending on the data rate and fiber type. These modules use LC duplex connectors and operate at wavelengths such as 850 nm, which is standard for multimode transmission.

Key Models and SpecificationsSFP-FE-SX-MM1310: A 100 Mbps multimode module certified by Huawei, suitable for legacy networks. SFP-10G-SR / 10GBASE-SR: Supports 10 Gbps over multimode fiber with a maximum reach of 300 meters. It features digital diagnostic monitoring (DDM) for real-time performance monitoring and operates in a temperature range of 0°C to 70°C.

SFP-25G-SR / 25GBASE-SR: Designed for 25 Gbps applications, with a maximum reach of 100 meters over multimode fiber, ideal for data center and enterprise networks.

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Compatibility and Certification

Huawei requires that optical modules be certified for use on Huawei switches to ensure reliability and service stability. Certified modules are labeled with "HUAWEI" and can be verified using commands such as display transceiver or display version on Huawei devices. Non-certified modules may work but can cause link instability or reduced performance.

Some third-party modules, like the BlueOptics 02318169 10GBASE-SR SFP+, are tested for full compatibility with Huawei hardware and follow MSA standards, offering a cost-effective alternative while maintaining reliability.

Features

High data rates: 100 Mbps to 25 Gbps depending on the module. Short-distance multimode transmission: Typically 100–300 meters.

L

C duplex connectors for easy plug-and-play installation. Digital diagnostic monitoring (DDM) for real-time monitoring of optical power, temperature, and voltage. Wide operating temperature range: 0°C to 70°C for most modules.

MS

A compliance: Ensures interoperability with other standard-compliant devices.

Use Cases

Huawei multimode SFP modules are ideal for: Data center interconnects over short distances.

Enterprise LA

Ns requiring high-speed connectivity. Switch-to-switch or switch-to-server connections within racks or across adjacent racks. Upgrading legacy networks to higher speeds without replacing existing multimode fiber infrastructure.

These modules provide a reliable, high-performance solution for short-range optical networking while ensuring compatibility with Huawei-certified hardware.

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Article Content

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Pluggable Module Specifications FE SFP/eSFP Optical Modules GE eSFP Optical Modules GE-CWDM eSFP Optical Modules GE SFP Copper Modules SFP Stack Optical Modules 10GE SFP+ Optical

Optical Modules for Huawei S Series Switches

Huawei switches support optical modules of the following encapsulation types: CFP, QSFP+, QSFP28, XFP, SFP, eSFP, and SFP+. All optical modules are hot swappable.

Huawei 02318169 SFP+ 10GBASE-SR Multimode Transceiver

The 02318169 10GBASE-SR LC Duplex SFP+ compatible with Huawei has a receiving function (receiver with 850nm) and a transmitting function (transmitter with 850nm) for the transmission of optical

OMXD30000, Huawei SFP+ Optical Transceiver, 10G,

Huawei OMXD30000 10G SFP+ multi-mode 850nm 0.3km LC module ensures stable short-reach data center and campus links. Check specs and pricing now.

Huawei QSFP-40G-iSR4 40G QSFP+ SR4 MMF

The Huawei QSFP-40G-iSR4 is a high-density QSFP+ optical transceiver designed for enterprise and data center aggregation. Supporting 40 Gbps over multimode

Huawei eSFP-GE-SX-MM850 Optical Transceiver,

Huawei eSFP-GE-SX-MM850 optical transceiver module, 850nm multi-mode, 1Gbps speed, LC connector, 1km max distance. Compliant with 1000base-SX standard.

Understanding Pluggable Optical Modules

Therefore, optical modules are also classified into single-mode and multimode modules to support different optical fibers. Single-mode optical modules are used with single-mode fibers.

Genuine Transceiver Modules

GenuineModules is a reliable supplier of optical interconnect products for use in fiber optic networking, including optical transceiver modules, direct attach cables,

Types of Optical Modules

Multimode optical modules are used with multimode fibers. Multimode fibers have lower transmission performance than single-mode fibers because of modal dispersion, but their costs are also lower.

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

Confused by SFP vs SFP+? 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.

Troubleshooting Optical Module Issues

Troubleshooting Optical Module Issues Symptom An optical port cannot go Up. The optical module cannot be properly identified and optical module information cannot be obtained. After

What Is an Optical Module and Its FAQs (V200)

What Is an Optical Module and Its FAQs (V200) Describes what an optical module is and FAQs, including the fundamentals, appearance and structure, key performance counters, common types,

Huawei eKit Transceiver eSFP-GE-SX-MM850 Multi-Mode 1G eSFP

Part Number 2315204 Model eSFP-GE-SX-MM850 Description Optical Transceiver,eSFP,GE,Multi-mode Module (850nm,0.55km,LC) Level-1 category GE eSFP Optical Modules Module name eSFP

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