

Huawei SFP gigabit optical module



Overview

10GE SFP+ Optical Modules Single-fiber bidirectional (BIDI) optical modules must be used in pairs. For example, SFP-10G-BXU1 must be used with SFP-10G-BXD1.

Key Takeaways

Yes, Huawei SFP ports can use gigabit optical modules, provided the modules are certified or compatible with the switch.

Fiber Optical Modules

Huawei offers gigabit SFP fiber modules such as the eSFP-GE-SX-MM850, which supports 1.25 Gbps transmission over multimode fiber with LC duplex interfaces and distances up to 550 meters on OM2 fiber. These modules comply with SFP MSA and IEEE 802.

3z standards, support digital diagnostics (DDM/DOM), and are hot-swappable, making them suitable for 1000BASE-SX networks and compatible with Huawei S5700 and S5720 series switches.

Copper SFP Modules

For copper connections, Huawei provides 10/100/1000BASE-T SFP transceivers that support 1 Gbps over Cat5e/6 cables up to 100 meters. These modules comply with IEEE 802.3ab standards and include standard SFP MSA serial ID information for proper recognition by Huawei switches.

Certification and Compatibility

Huawei emphasizes that only certified optical or copper modules should be used to ensure transmission reliability and service stability. Non-certified modules may cause link failures or unsupported transceiver alarms. Certified modules are typically labeled with "HUAWEI" and recognized by the switch via commands such as display transceiver or display version.

Practical Considerations SFP ports are backward compatible with 1G modules, so a 1G SFP can be used in a port that supports higher speeds (e.g., SFP+), but the link will operate at 1 Gbps. Ensure the module type matches the fiber type (single-mode vs multimode) and distance requirements. Using Huawei-certified modules simplifies support and avoids EEPROM or software compatibility issues.

In summary, Huawei SFP ports can use gigabit optical modules, both fiber and copper, as long as the modules are certified or compatible with the switch model and meet the required standards for speed, fiber type, and distance.

Article Content

10GE SFP+ Optical Modules

Single-fiber bidirectional (BIDI) optical modules must be used in pairs. For example, SFP-10G-BXU1 must be used with SFP-10G-BXD1.

10 Gbit/s SFP+ Optical Modules

10 Gbit/s SFP+ optical modules apply to 10 GE optical ports. The wavelength can be 850 nm, 1310 nm, or 1550 nm, and the transmission distance ranges from 0.5 km (0.31 mi) to 80 km (49.71 mi).

Huawei eSFP-GE-SX-MM850 Gigabit Optical Module Overview

The eSFP-GE-SX-MM850 optical module is a Huawei Gigabit multimode optical module with DOM/DDM support, which is packaged in an SFP package with a center wavelength of 850 nm.

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

SFP-GE-T

This product is 100% compatible with all Huawei products that support 1000BASE-T SFP transceivers. Rigorous production testing ensures the best out-of-the-box

Tp-link optical module is the real king! 20km gigabit single-mode sfp ...

It's not the equipment that's faulty; it's the "no-name module" you're using. It can't even handle a -27dbm receive threshold! The tp-link tl-sm312ls-20km, on the other hand, boasts a factory

Understanding Pluggable Optical Modules

An eSFP module is an SFP module that supports monitoring of voltage, temperature, bias current, transmit optical power, and receive optical power. Because all the SFP optical modules support

Advancing Industrial All Intelligence

Huawei Enterprise provides a broad range of innovative ICT infrastructure products and solutions for vertical industry and enterprise customers worldwide.

Berns gigabit sfp transceiver $\propto$ Lc photoelectric conversion ...

Have you ever experienced: the network cable in the computer room suddenly breaks in the middle of pulling, and the fiber optic interface does not match and you stare blankly; temporary

Huawei SFP Module Price

Find huawei sfp module price and other fiber optic transceivers at our reliable supplier. High-quality, compatible, and affordable solutions for your network.

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

The SFP (Small Form-factor Pluggable) is a compact, hot-pluggable optical transceiver module used for telecommunication and data communications applications. Before its birth, The Networking world

Nokia 3HE11023AAAA01 10GBASE-SR SFP+ Optical Transceiver

The Nokia 3HE11023AAAA01 is a genuine original 10GBASE-SR SFP+ short-range optical transceiver, manufactured by Finisar for Nokia. Designed for high-speed 10 Gigabit Ethernet networks, this

Optical Modules Market Research Report 2034

Optical Modules Market Outlook 2025-2034 The global optical modules market was valued at \$14.8 billion in 2025 and is projected to reach \$39.6 billion by 2034, advancing at a compound annual

FR 10 Gigabit SFP+ 10G Optical Module Single-Mode 1310nm Multi

FR 10 Gigabit SFP+ 10G Optical Module Single-Mode 1310nm Multi-Mode 850nm Dual-Fiber LC 300m SR 3Y Warranty Factory Direct Sales

Huawei S220-24T4X 24 Port Managed Switch

Buy original Huawei eKit S220-24T4X 24-Port Gigabit Web-Managed Switch in Myanmar. Features 4x 10GE SFP+ uplink ports & 128 Gbps fabric. Best price in Yangon.

switch sfp+

2pcs New 1.25G SFP BiDi Transceiver 1310nm/1550nm 10km Gigabit Single Mode Single Fiber LC Connector Optical Module for Switch US \$13.15

Cisco SFP vs GBIC vs XFP vs SFP+: The Practical Optical

Choosing the wrong module can lead to costly mismatches, link instability, or wasted budget. This guide provides a clear, practical comparison among the most common transceiver types

Huawei RRU SFP

Huawei RRU SFP module, optical transmission device, low price around \$7, minimum order of 1 unit. Suitable for wholesale, available in bulk, wireless infrastructure equipment.

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

