Huawei optical module compatibility



Overview

Optical Modules for Huawei S Series SwitchesAre Optical Modules of Huawei Switches Interchangeable with Optical Modules of Other Manufacturers?

No. Huawei.

Key Takeaways

Huawei switches require certified optical modules for reliable operation, though some third-party modules may work if they meet MSA standards, but non-certified modules carry operational risks. Certified vs Non-Certified ModulesHuawei mandates that only certified optical or copper modules be used on its switches to ensure transmission reliability and service stability. Non-certified modules may cause failures such as data bus suspension, incorrect temperature alarms, or physical damage to optical interfaces, and Huawei will not provide support for issues caused by them.

Certified modules are labeled with "HUAWEI," and their certification can be verified using commands like display transceiver or display version on the switch.

Supported Module Types

Huawei switches, such as the S5735-S48T4X, support both 1G SFP and 10G SFP+ modules on uplink ports, with auto-negotiation allowing downward compatibility. Modules must follow the MSA (Multi-Source Agreement) standard form factor, which allows some third-party modules to be physically compatible. However, form-factor compliance does not guarantee full operational compatibility, and Huawei recommends using certified modules for optimal performance.

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Common Huawei optical module categories include: SFP (1G): FX, SX, LX, ZX, CWDM, bidirectional, and compact SFPs for various distances and fiber types. SFP+ (10G): SR, LR, ER, ZR, CWDM, DWDM, bidirectional, DAC, and AOC cables. QSFP28 and higher-speed modules for data center and metro applications.

Practical Compatibility Considerations

Fiber Type Matching: Single-mode and multi-mode fibers must match the optical module type; mixing them can prevent connectivity. Interface Speed: Do not use a higher-speed module on a lower-speed interface (e.g., 10G module on a 1G port) to avoid link failures. Distance and Wavelength: Ensure the module's wavelength and optical power are within the supported range for the link distance.

Third-

Party Modules: Some reputable third-party modules may work if they comply with MSA standards, but they may not pass Huawei's full certification tests, which include plug/unplug cycles, optical power, signal quality, EMC, and environmental parameters.

Verification and Support

To confirm module compatibility: Check the Vendor Name field using display transceiver—it should show HUAWEI for certified modules. Verify the manufacture date is after July 1, 2013, for modules certified post that date. Consult Huawei's supported module list for your specific switch model.

Using certified modules ensures reliable operation, warranty compliance, and support from Huawei, while non-certified modules may reduce network stability and risk hardware damage.

Article Content

Optical Modules for Huawei S Series Switches

Are Optical Modules of Huawei Switches Interchangeable with Optical Modules of Other Manufacturers? No. Huawei switches must use Huawei-certified switch optical modules.

Optical Interface FAQ: Transceiver Compatibility Guidelines for Cisco ...

Yes, our optical transceivers are engineered to be 100% functionally compatible with both Cisco and Huawei equipment. They adhere strictly to MSA standards, ensuring physical ...

Huawei PON SFP Modules | GPON XG-PON XGS-PON & 50G-PON

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These modules support transmission distances up to 60 km, provide excellent optical budgets, and are optimized for deployment in Huawei OLT platforms and modern Fiber-to-the-Home

Huawei Compatible Transceivers | EDGE Optical Solutions

We are a supplier of compatible Huawei optical transceiver products that are built to meet reliability and performance requirements. Compatible Huawei transceiver products are widely used among network

Huijue Huawei optical module compatibility

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

01-10 OPTICAL MODULES

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

Optics Compatibility Matrix

Read about the latest technology and events related to Cisco''s optical transceivers. Watch short videos explaining transceiver concepts and how Cisco Optics make life easier for network operators.

Huawei S5735-S48T4X SFP Compatibility Guide | Module Types

The wrong module can cause link failures, performance degradation, or unnecessary cost overruns. This guide explains which SFP and SFP+ modules are compatible, when third-party alternatives are

Huawei OLT PON Port Licensing FAQ: Expert Answers to Network ...

Furthermore, PON cards or modules can only interconnect with Huawei''s equipment due to proprietary mechanisms. The rule is: port mode, RTU license, optical module, and the ONU/ONT must all be

Nokia 3HE11023AAAA01 10GBASE-SR SFP+ Optical Transceiver

Specializing in optical transceivers, telecom modules, base station equipment, and connectivity solutions, we focus on providing multi-brand compatible optical modules (Cisco, Huawei, Ericsson,

Ericsson RDH 102 414/35 R1A (RTXM228-525-C25) 10G CWDM SFP+ optical ...

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All optical transceivers undergo professional optical performance testing before shipment. - Compatibility verification on major brand equipment (Cisco, Huawei, Ericsson, Nokia, Juniper, HP, H3C, Arista). -

Cisco Compatible Optical Modules Catalog

EXECUTIVE SUMMARYThis document serves as the definitive technical reference for the Cisco Compatible Optical Modules Catalog, encompassing a comprehensive portfolio of Small Form-Factor

Cisco-compatibele optische modules catalogus

SAMENVATTING Dit document dient als de definitieve technische referentie voor de Cisco Compatible Optical Modules Catalog, met een uitgebreid portfolio van Small Form-Factor Pluggable (SFP),

1G SFP Optical Transceivers | SX, LX, TX Modules

Discover reliable and versatile 1G SFP optical transceivers fully compatible with Cisco, Huawei, Juniper, Arista, and more. Choose from SX, LX, and TX modules.

40Gbps QSFP+ Optical Modules

1Gbps eSFP Optical Modules 10Gbps SFP+ Optical Modules 40Gbps QSFP+ Optical Modules 100Gbps QSFP28 Optical Modules Cables Hardware Installation Maintaining the Hardware

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

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

Ethernet Switch Port Types Explained 2026: RJ45,

The connected optical module is a 40G QSFP+, not a QSFP28 The switch ASIC lane group supports “40G compatible mode” Auto-power reduction

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.

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