

Huawei Optical Module Compatibility List



Overview

Optical Modules in Intelligent Computing Scenarios In the AI era, Huawei provides a full range of GE to 800GE optical modules, featuring three major capabilities.

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 Modules Huawei 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.

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 in Intelligent Computing Scenarios

In the AI era, Huawei provides a full range of GE to 800GE optical modules, featuring three major capabilities: Spanning (ultra-long transmission), Stable (ultra-high reliability), and Secure (ultra-solid

Optical Modules for Huawei S Series Switches

To determine whether optical modules delivered for Huawei switches before July 1, 2013 are certified ones, contact Huawei technical support. If your optical modules are delivered after July 1, 2013, use

Huawei Compatibility Matrix for Transceivers and Cables

Optech offers high quality transceivers and cables solutions 100% compatible with Huawei. All products are tested on corresponding equipment before shipping. The Huawei

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

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

Overview & Thematic ScopeWelcome to our technical support FAQ, specifically designed to address the most critical pre-sales and post-sales questions regarding optical transceiver compatibility with Cisco

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.

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.

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

Discover Huawei GPON and XG-PON SFP modules including Class B+, C+, C+ Pro, and D optics. Compare specifications, performance, compatibility,

01-09 PLUGGABLE MODULES FOR INTERFACES

To confirm whether optical modules you use have been certified by Huawei, contact technical support personnel. If the optical modules you use are delivered after July 1, 2013, use either of the following

Huawei S5735-S48T4X SFP Compatibility Guide | Module Types

Learn which SFP and SFP+ modules work with the Huawei S5735-S48T4X, how third-party optics compare to original parts, and what to check before ordering.

Types of Optical Modules

Huawei S series devices support optical modules of the following encapsulation types: CFP, CFP2, QSFP+, QSFP28, XFP, SFP, eSFP, and SFP+. All optical modules are hot swappable.

FAQs About Optical Modules

For details about the optical modules supported by optical ports on switches, see "Appearance and Structure" of a specific switch model in the Hardware Description. The following figure shows the

Huawei Compatibility Matrix for Transceivers and Cables

The Huawei Compatibility Matrix for Optical Transceivers and Cables includes SFP, 10G SFP+, 40G QSFP+ and 100G QSFP28.

Types of Optical Modules

Optical modules are encapsulated in different modes to provide different structures. Huawei routers support optical modules of the following encapsulation types: SFP, eSFP, SFP+, XFP, and QSFP+.

10GE SFP+ Optical Modules

This document provides an overall description of the CE12800 series switches hardware, helping you obtain detailed information about each chassis, power module, fan module, card, cable, and

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

Introduction Huawei PON SFP modules are carrier-grade optical transceivers designed for GPON XG-PON XGS-PON & 50G-PON broadband access networks. Widely deployed by Internet

Hardware Compatibility Tool | Juniper Networks Pathfinder

Juniper Networks Hardware Compatibility Tool helps you find the transceivers or optics, line cards, and interface modules that are supported on Juniper Networks products.

HUAWEI Transceiver

HUAWEI Transceiver Optical transmitter and receiver products of Gearlink optical transceiver manufacturer are trusted by customers with high compatibility, low power consumption, high quality,

Contact Us

Continue your research online:

Website: <https://ensaa.es>

Technical inquiry: <https://ensaa.es/contact.html>

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

