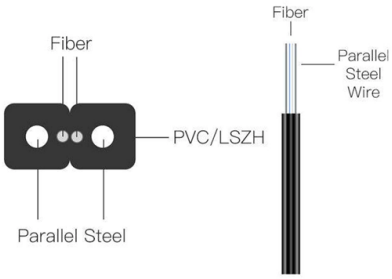
Huawei optical modules are compatible with 10 Gigabit and 1 Gigabit speeds



Overview

Optical Modules for Huawei S Series SwitchesTo determine whether optical modules delivered for Huawei switches before July 1, 2013 are certified ones, cont.

Key Takeaways

Huawei SFP+ optical modules are compatible with both 10 Gigabit and 1 Gigabit speeds, depending on the switch port and module type.

Compatibility Overview

Huawei offers a range of optical modules including SFP, SFP+, XFP, and SFP28, each designed for specific speed ranges and applications.

SF

P modules typically support 1 Gigabit Ethernet (1. 25 Gbps) and are widely used in access and aggregation layers. SFP+ modules support 10 Gigabit Ethernet (up to 10.

31 Gbps) but can also accept SFP modules in the same port, allowing operation at 1G speeds if the switch supports dual-rate functionality. Huawei SFP+ modules, such as the SFP+10GE-LH10-SM1310, are designed to operate over single-mode fiber and support 1. 25–10.

31 Gbps, making them versatile for both 1G and 10G applications.

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Practical Considerations

Port Compatibility: SFP+ ports on Huawei switches generally accept SFP modules, but the speed may be locked at 1G until the switch is rebooted or configured.

Auto-

Negotiation: Fiber-based SFP/SFP+ modules do not support auto-negotiation. Therefore, the link speed must be manually configured to match the module and port capabilities. Economic and Network Planning: While a 10G SFP+ module can operate at 1G when connected to a 1G SFP module, it is often more cost-effective to use a 1G module for 1G links to avoid unnecessary over-provisioning.

Summary

Huawei optical modules provide flexible speed compatibility: SFP+ modules can operate at 10G for high-speed links and can also support 1G when paired with compatible SFP modules and properly configured ports. Users should verify switch model support for dual-rate operation and configure the link speed accordingly to ensure seamless connectivity.

Article Content

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

10G to 100G: How to Choose the Right Huawei SFP, SFP+, and

Huawei offers a comprehensive portfolio of optical transceivers, including SFP, SFP+, SFP28, QSFP+, and QSFP28 modules that support speeds ranging from 1G and 10G to 100G and

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.

SFP Module Selection Guide

Langzhi Technology offers a full range of high-quality SFP module products compatible with Huawei, ZTE, Cisco, H3C and other major brands. Up to 1.25Gbps, the most common

Is SFP Compatible With SFP+? Can 10G SFP+ Run at 1G SFP

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Edited in 2021: 1/10G dual-rate SFP+ transceivers are designed for use in 1-Gigabit and 10-Gigabit Ethernet links over single-mode fiber (SMF) or multi-mode fiber (MMF).

Can Huawei''s 10Gbps optical module be connected to a Gigabit

Generally, the speed of optical modules is backward compatible, so when we insert the 10Gbps optical module into the Gigabit optical port, as long as the transmission rate of the opposite end is the same,

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.

How to Choose the Right Optical Transceiver in 2025

Learn how to select the right optical transceiver for your switch or router. Compare SFP, SFP+, QSFP28, Cisco SFPs, and Huawei modules with buying tips.

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

SFP vs SFP+: The OEM Guide to 1G and 10G Optical Transceivers

Most enterprise switches (Cisco, Aruba, Juniper) allow 10G SFP+ ports to accept 1G SFP modules. However, you may need to manually set the port speed to 1000Mbps in the switch

Cisco 10GBASE SFP+ Modules Data Sheet

Product overview The Cisco® 10GBASE SFP+ modules (Figure 1) give you a wide variety of 10 Gigabit Ethernet connectivity options for data center, enterprise wiring closet, and service provider transport

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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.

10GE SFP+ Optical Modules

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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

Optical Modules for Huawei S Series Switches

A switch must use optical or copper modules that have been certified for use on Huawei switches. Non-certified optical or copper modules cannot ensure transmission reliability and may affect service

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).

10GE SFP+ Optical Modules

10GE-CWDM SFP+ Optical Modules 10GE-DWDM SFP+ Optical Modules 40GE QSFP+ Optical Modules Industrial Optical Modules 100GE QSFP28 Optical Modules GPON Optical Modules 25GE

Accelerating Gigabit and Ultra-Gigabit Development,

Huawei is looking forward to working with global carriers and partners to accelerate the construction of gigabit and ultra-gigabit networks, develop new

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

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