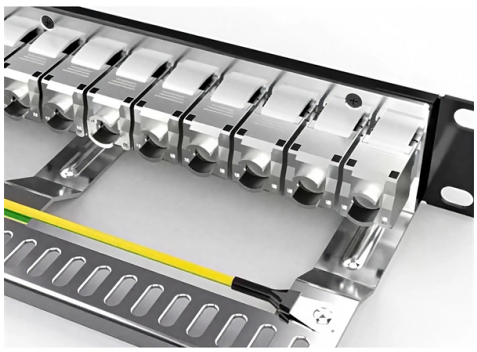
Compatible with Huawei single-core optical modules



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 single-core optical modules are compatible with certified Huawei SFP/SFP+ modules and high-quality third-party modules that meet Huawei's specifications.

Huawei-

Certified Modules

Huawei requires that switches and routers use certified optical or copper modules to ensure transmission reliability and service stability. Certified modules are labeled with “HUAWEI”, and their details can be verified using commands like display transceiver or display version on the switch. Certification ensures proper functionality, including plug/unplug operations, optical power levels, signal quality, error tolerance, and electromagnetic compatibility.

For single-core or single-fiber applications, Huawei provides single-fiber bidirectional (BIDI) SFP modules, which must be used in pairs (e.g., SFP-10G-BXD1 with SFP-10G-BXU1),.

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Third-

Party Compatible ModulesHigh-quality third-party modules are available that are fully compatible with Huawei switches and can offer cost-effective alternatives. These include: 1G SFP modules: FX (2 km), SX (550 m), LX (10–80 km), ZX (120 km) for single-mode fiber.

Single-fiber BIDI SF

P modules: 21 km, 41 km, 80 km options for Huawei systems. 10G SFP+ modules: SR (300 m), LR (10 km), ER (40 km), ZR (80 km), including bidirectional single-fiber variants.

CWDM and DWD

M SFP+ modules for metro networks and fiber capacity expansion. These modules follow Multi-Source Agreement (MSA) standards, ensuring proper form factor, LC duplex connectors, and hot-swappable design for easy integration.

Technical Considerations

Wavelength and distance: Ensure the module's wavelength matches the paired module; mismatched wavelengths reduce transmission distance (e.g., 10G ER modules may only reach 20 km if paired incorrectly),. Form factor: SFP and SFP+ modules are standard for single-core fiber; LC duplex connectors are common for precise alignment and minimal insertion loss. Certification check: For modules delivered after 2013 (10GE or lower) or 2016 (40GE/100GE), verify the Vendor Name field shows HUAWEI or confirm with technical support.

Practical Recommendations

Use certified Huawei modules for mission-critical networks to avoid data bus suspension, connector damage, or incorrect alarms. For cost-effective deployments, high-quality third-party compatible modules can be used, ensuring they meet Huawei's specifications and MSA standards. Always pair single-fiber BIDI modules correctly to maintain proper bidirectional communication.

By following these guidelines, you can ensure reliable, high-performance operation of Huawei single-core optical networks while maintaining flexibility and cost efficiency.

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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.

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

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.

OM5270S-D2SW Huawei compatible XGSPON & GPON OLT module

Huawei compatible OM5270S-D2SW is XGSPON & GPON OLT SFP transceiver, operating over Single-Mode Fiber (MMF) optical cable. It has minimum guaranteed optical budget of 34dB for XGPON and

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Huawei 34061588 / MTRA-3E30A compatible 16G Fibre Channel 1310nm 10km transceiver Carritech CT-16G-SFP+LR is a compatible alternative to Huawei 34061588 / MTRA-3E30A for single-mode

01-11 PLUGGABLE MODULES FOR INTERFACES

Single-mode optical modules are used with single-mode fibers. Single-mode fibers support a wide band and large transmission capacity, and are used for long-distance transmission.

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SFP Huawei Compatible Modules

Find reliable sfp huawei compatible modules for various networking needs. Shop our selection of high-quality optical transceivers for 10G and 25G speeds.

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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800G Optical Module Market Outlook By Size and Forecast The trajectory of the 800G optical module market over the next several years is characterized by a combination of technological,

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

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,

SFP Modules: Types, Selection Guide & Applications

SFP modules are the backbone of modern networking, offering flexibility, speed, and compatibility across a range of applications. By understanding their types, features, and selection

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

Introduction - Why Optical Transceivers Matter In every modern enterprise network, performance depends heavily on the quality and compatibility of its optical transceivers. When IT

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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

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A complete engineering guide to Ethernet switch port types: RJ45, SFP, SFP+, SFP28, QSFP+, QSFP28, Combo, Stack, PoE, access/trunk/hybrid

Fiber Patch Cables Explained 2025: Types, Connectors,

Learn about fiber patch cables, their types (single-mode vs multimode), connectors (LC, MPO, MDC/CS), and use cases in data centers.

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

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