Huawei switch optical modules and H3C optical modules



Overview

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.

Key Takeaways

Huawei and H3C optical modules offer a wide range of pluggable transceivers for data centers and enterprise networks, supporting various speeds, wavelengths, and fiber types with high reliability and compatibility.

Overview

Huawei optical modules include the StarryLink series and a full range from GE to 800GE, designed for both general-purpose and AI-driven data center networks. They emphasize ultra-long transmission, high reliability, and security, with features like channel loss resistance and contamination detection to improve operational stability and reduce downtime. Huawei modules support flexible plug-and-play deployment across multiple interface types.

H3

C optical modules are similarly diverse, offering SFP, SFP+, and QSFP transceivers compatible with single-mode (SM) and multi-mode (MM) fibers. They are widely used in enterprise and data center networks, supporting standard wavelengths such as 850nm (MM), 1310nm, and 1550nm (SM), with short (SX), medium (LX), and long (LH) distance options.

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Common Specifications

Fiber Type: Single-mode (SM) or Multi-mode (MM)Wavelengths: 850nm, 1310nm, 1550nmTransmission Distance: Short (SX), Medium (LX), Long (LH)Interface Types: SFP, SFP+, QSFP, QSFP28Special Features: Bidi (single-fiber bidirectional), T (electrical interface), DOM digital diagnostics for real-time monitoring Popular ModelsHuawei: QSFP-100G-LR4: 1310nm, 10km, LCQSFP-100G-SR4: 850nm, 100m, MPOSFP-10G-LR: 10G, 1310nm, 10km, LCH3C: SFP-GE-LX-SM1310-D: 1. 25Gbps, compatible with SM/MM fiber, LC interface, supports hot-swapping and auto-negotiation, suitable for enterprise LAN, data center, and metro networks Key DifferencesPerformance Focus: Huawei modules often target high-bandwidth AI and data center applications with ultra-high reliability and security features, while H3C modules focus on broad enterprise network compatibility and cost-effective deployment.

Advanced Features: Huawei modules include enhanced diagnostics and contamination detection, improving long-term stability, whereas H3C modules emphasize compatibility and ease of integration with mainstream switches. Deployment Scenarios: Huawei is preferred for high-intensity, high-speed data center interconnects, while H3C is widely used in enterprise LANs, metro networks, and general-purpose data centers.

Conclusion

Both Huawei and H3C optical modules provide reliable, high-performance solutions for modern networking needs. Huawei excels in AI-driven, high-bandwidth, and ultra-reliable environments, while H3C offers versatile, compatible, and cost-effective modules suitable for enterprise and data center networks. Selection should consider network speed requirements, fiber type, transmission distance, and switch compatibility to ensure optimal performance and reliability.

Article Content

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

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

Can original HUAWEI optical module be used on H3C switch?

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So can original HUAWEI optical module be used on H3C switch?The answer is No. Some companies, especially some famous companies, such as CISCO, HUAWEI and H3C etc., they all add password

FAQs About Optical Modules

The switch must have optical modules certified for Huawei switches installed. Optical modules that are not certified for Huawei switches cannot ensure transmission reliability and may affect service

Optical Interface FAQ: Transceiver Compatibility Guidelines for

Q7: What is the optical module interoperability standard for different Huawei products? Broad interoperability between Huawei products, such as connecting an OSN to an ...

Latest 2025 | huawei h3c gigabit optical module ...

If you''re an enterprise-level user or it operations personnel looking for stable, efficient, and highly compatible network equipment, then this huawei h3c gigabit sfp+ module (sfp-ge-lx-sm1310-d)

Optical Module Solutions for Huawei S5700/S5720 Series Switches

This article summarizes several solutions for using optical modules with switches and common problems encountered during usage, along with specific solutions.

How To Turn Off Alarms For Third-Party Modules On H3C Switches

By default, a large number of alarm messages will be generated if the module is verified as non-H3C original. H3C provides CLI commands to suppress these optical module alarm

Huawei and H3C switches view optical module receiving and emitting

Huawei and H3C switches view optical module receiving and emitting and optical module information, Programmer Sought, the best programmer technical posts sharing site.

Optical Transceiver Manufacturer,Do You Worry About Whether The

When many customers purchase optical module products, they will worry about one question: can your module be compatible with XXX switch?

Active Optical Cables (AOC) Explained: Advantages,

Learn AOC advantages and limitations, and how they compare to DAC and optical modules. Includes use cases, deployment tips and FAQs for

How To View Optical Transceiver Information On Huawei Switches

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Optical modules are commonly used in switches, network cards, routers and other communications equipment, in the process of using the optical module information can be read to

S5735-S48PN4XE-V2

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used

KXOR optical communication equipment | Shenzhen

Data center 100G/400G optical transceiver selection guide: SR4 vs LR4 vs DR4. Which one fits your ToR switch? We have Cisco/Juniper compatible modules in stock. DM for datasheet &

Ethernet Switch Port Types Explained 2026: RJ45,

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

H3CSFP-XG-LX-SM1310-S 10G SFP+ Multi-mode Optical Module

High quality H3CSFP-XG-LX-SM1310-S 10G SFP+ Multi-mode Optical Module from China, China''s leading product market Fibre Channel Switch product market, With strict quality control Fibre

Selection Guide for Data Center 400G Optical Modules

This standard is primarily driven by data center switch vendors (such as Arista, Cisco, Juniper, H3C, and Huawei) and holds the largest market share. OSFP (Octal Small Form-factor

Loopback test tool: get optical module self-testing for ...

And today i want to introduce this eb-link sfp+ loop optical module 10g/25g/40g/100g circulator loop tester used for r&d testing loop testing compatible with h3c, huawei, zte and cisco, which is a handy

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

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