

Using optical modules in Huawei switches



AI Overview

Huawei switches support a range of certified optical modules, including SFP, eSFP, SFP+, SFP28, XFP, QSFP+, QSFP28, and CFP, across speeds from 100M to 800GE, with certification ensuring reliability and compatibility. Certification and Compatibility Huawei requires that switches use certified optical or copper modules to ensure transmission reliability and service stability. Non-certified modules may cause network issues, and Huawei does not provide support for problems arising from their use. Certification for 10GE or lower modules began on July 1, 2013, and for 40GE/100GE modules on January 1, 2016. Certified modules are labeled with "HUAWEI," and their details can be verified using commands like `display transceiver` or `display version`.

Supported Form Factors and Speeds

Huawei S series switches support a variety of optical module form factors and speeds:

- SFP:** Small Form-Factor Pluggable, supports LC fiber connectors, typically 100M-1GE.
- eSFP:** Enhanced SFP with monitoring capabilities for voltage, temperature, and optical power.
- SFP+:** High-speed SFP, commonly 10GE.
- SFP28:** Supports 25GE, same interface size as SFP+.
- XFP:** 10GE modules, larger than SFP+.
- QSFP+:** Quad SFP, supports 40GE, uses MPO connectors.
- QSFP28:** Supports 100GE, compatible with QSFP+ interface size.
- CFP:** Centum Form-Factor Pluggable, used for 100GE and higher-speed applications.

All modules are hot-swappable, allowing replacement without powering down the switch.

StarryLink Optical Modules

Huawei's StarryLink optical modules provide advanced features for data center networks:

- Transmission range** from GE to 800GE.
- Ultra-reliable and secure** with PHYSEC encryption for 100% packet security.
- Short-distance optical return loss positioning** for precise fault detection.
- Channel loss resistance technology** enhances reliability by tenfold.
- Exclusive optical path coupling algorithms** for improved performance.

These modules are designed for long-distance, high-speed, and secure interconnectivity in enterprise and data center environments. Pra...

Article Content

Groundbreaking SuperPoD Interconnect: Leading a

With UBoE, UnifiedBus runs over Ethernet, so that customers can continue to use their existing Ethernet switches. Compared to a RoCE cluster, a

Introduction of Optical Modules on Huawei Switches

If an optical module is installed in a running switch, you can run the display transceiver command to view parameters of the optical module, including the

CloudEngine S5700 Series Switches Hardware Description (V600)

CloudEngine S5700 Series Switches Hardware Description (V600) About This Document Using the Info-Finder Version Requirements for Components

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

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

All NS Comm optics, patch cords, and modules are multi-brand compatible, tested for Cisco, Huawei, H3C, Arista, and Alcatel-Lucent switches.

Top 10 Optical Transceiver Manufacturers in the World

Sourcing optics for your data center? Discover the top 10 optical transceiver manufacturers in 2026. Compare global giants and factory-direct OEM alternatives.

Huawei 40G QSFP Switch Guide: CE6800 & CE12800 Specs

Compare Huawei CloudEngine 40G switches (CE6800, CE12800), QSFP+ module compatibility (SR4/LR4), and deployment guidance for AI-ready Ethernet fabrics.

Troubleshooting for Optical Modules on Huawei Switch

Check whether the optical module is Huawei-certified. If it is not certified by Huawei, replace it with a Huawei certified one. Remove and reinstall the optical module. ...

S210 Series Switches Installing an Optical Module

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

Optical Components and Modules

Everything you need to build an optical network from end-to-end. Thin-film filter and PLC based AWG for multiplexing, a full suite of components for optical

Installing an Optical Module

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

400G Optical Modules 2026 Guide: DR4 vs. FR4 vs.

Our CCIE/HCIIE team shares lab-tested benchmarks for DR4, FR4, and LR8, focusing on power efficiency, latency, and AI cluster scalability.

How To View Optical Transceiver Information On Huawei Switches

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

Leading Solar Solutions for a Greener Future | HUAWEI

HUAWEI FusionSolar advocates green power generation and reduces carbon emissions. It provides smart PV solutions for residential, commercial, industrial,

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

AOC, DAC, Fiber Optic Transceivers | One-Stop Shop

Online shopping. w/24h-delivery, 7Days & Refund Guarantee. CE, RoHS and ISO9001 Certified. SFP+ Cables, QSFP+ Cables, MiniSAS Cables, XFP Cables,

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.

Installing Optical Module Tutorial For HUAWEI Switch

Module installation is an important factor affecting the service life of switches and modules. In the installation process, be sure to follow the installation steps mentioned above and pay attention to the

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

Understanding Optics Module Trends and Growth

The Optics Module market is expanding rapidly, driven by data center proliferation and 5G deployment. Analyze the 12% CAGR to \$42 billion by

LightCounting :: Scale-up networks in AI Clusters is a

A surge in AI development created a new wave in demand for optical connectivity in 2023-2025 and it will sustain the market's growth through 2030. The Figure

Maximizing Network ROI: A Total Cost of Ownership Analysis of Third ...

The Economic Imperative: Rethinking Optical Transceiver Procurement in the Modern DatacenterNetwork architects and IT financial planners face a persistent challenge: balancing

Nvidia CPO, roadmap disclosure-Electronics Headlines-EEWORLD

According to Nvidia, this loss becomes prohibitive as AI deployments scale. CPO eliminates the shortcomings of traditional pluggable optical modules by embedding the optical conversion engine

Huawei AI CloudMatrix 384 – China's Answer to Nvidia

Huawei is making waves with its new AI accelerator and rack scale architecture. Meet China's newest and most powerful Chinese domestic solution,

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.introspec.co.za>

Email: info@introspec.co.za

Phone: +27 73 849 2156

Address: 25 Riebeek Street, Cape Town, 8001, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

