Optical Module of Huawei Firewall



Overview

Displaying Optical Module Information To determine whether optical modules delivered for Huawei S switches before July 1, 2013 are certified ones, contact.

Key Takeaways

Huawei firewalls support a range of optical modules including SFP, SFP+, SFP28, QSFP+, QSFP28, XFP, and CFP, depending on the model and required transmission speed.

Supported Optical Module Types

Huawei firewalls, particularly the USG series, are compatible with multiple optical module types to meet different network requirements: SFP (Small Form-Factor Pluggable): Standard modules for Gigabit Ethernet connections, suitable for short- to medium-distance links.eSFP: Enhanced SFP modules that support monitoring of voltage, temperature, bias current, transmit and receive optical power. SFP+: High-speed SFP modules for 10 Gbit/s transmission, commonly used in 10GE ports. SFP28: Supports 25 Gbit/s transmission, compatible with SFP+ interface size.

QSFP+ (Quad SFP Plus): Supports 40 Gbit/s transmission, typically using MPO fiber connectors. QSFP28: Supports 100 Gbit/s transmission or 40 Gbit/s when using QSFP+ modules, compatible with QSFP+ interface size.

XF

P: 10 Gbit/s modules with LC fiber connectors, larger than SFP+ modules.

CF

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P (Centum Form-Factor Pluggable): High-speed modules for data communication and telecom applications, dimensions 144. 75 mm x 82 mm x 13. 6 mm.

Transmission Modes and Fiber Types

Huawei optical modules are designed for both single-mode fibers (SMF) and multi-mode fibers (MMF): Single-mode modules: Used for long-distance transmission with high bandwidth and large capacity. Multi-mode modules: Used for short-distance, lower-capacity links, offering cost-effective solutions. Modules are also classified by transmission rates: FE, GE, 10GE, 25GE, 40GE, and 100GE, allowing firewalls to support a wide range of network speeds.

Special Huawei Optical Modules

Huawei also offers the StarryLink optical module series, designed for ultra-long-distance, high-reliability, and secure transmission, particularly in data center and AI-driven network environments. These modules are optimized for high-bandwidth interconnections and low-latency enterprise networks.

Practical Considerations

All Huawei firewall optical modules are hot-swappable, allowing replacement without shutting down the device. Selection of the module depends on port type, required speed, and fiber type. For example, a USG6320 firewall with 10GE SFP+ ports will require SFP+ modules for 10 Gbit/s links.

For long-distance or high-capacity links, single-mode SFP, SFP+, or QSFP28 modules are recommended, while multi-mode modules are suitable for short-distance connections. In summary, Huawei firewalls are compatible with a wide range of optical modules, from standard SFPs for Gigabit Ethernet to high-speed QSFP28 and CFP modules for 100 Gbit/s links, supporting both single-mode and multi-mode fibers to meet diverse network deployment needs.

Article Content

Displaying Optical Module Information

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

How To View Optical Transceiver Information On Huawei Switches

Optical transceivers are widely applied in switches, network cards, routers and other communication devices. Checking transceiver parameters allows users to monitor real-time

WHAT IS AN OPTICAL MODULE AND ITS FAQS (V200)

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As an important part of fiber-optic communication, an optical module is a photoelectric converter which converts electrical signals into optical signals and vice versa. An optical module works at the physical

Huawei Optical Switch View Optical Module Commands

Taking the Huawei 5700 series switches as an example, the commands to view optical module information are as follows: ... View the general, manufacturing, alarm, and diagnostic

Hardware Description_Onboarding USG6000E Series

By default, a combo port works as the electrical port. You can run the combo enable { copper | fiber } command to configure a combo port to work as an electrical port or optical port as

Huawei Switches Viewing Optical Port Receiving and Sending

Use the command display transceiver to view the optical module information of all optical ports, and use the command display transceiver interface interface-type interface-number to view the

HUAWEI USG6000 SERIES FIREWALL HARDWARE

You are advised to install an anti-theft board delivered with the device to protect the micro SD card.

HUAWEI HiSecEngine USG6600F&USG6700F Series AI Firewalls

With new hardware and software architectures, Huawei HiSecEngine USG6000F series are next-generation AI firewalls that feature intelligent defense, outstanding performance, and simplified O&M,

HUAWEI USG6620/6630 Next-Generation Firewalls

Description Provides firewall, VPN, intrusion prevention, antivirus, data leak prevention, bandwidth management, Anti-DDoS, URL filtering, and anti-spam functions.

40Gbps QSFP+ Optical Modules

1Gbps eSFP Optical Modules 10Gbps SFP+ Optical Modules 40Gbps QSFP+ Optical Modules 100Gbps QSFP28 Optical Modules Cables Hardware Installation Maintaining the Hardware

Optical Modules in Intelligent Computing Scenarios

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

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Optical Module Market Analysis And Forecast In 2026--ETU-LINK

AI computing power has driven explosive growth in the optical module market,with 800G and 1.6T technologies leading the industry transformation. Chinese companies occupy a dominant

Installing an Optical Module

Installing an Optical Module Context This section describes how to install an optical module. The method used to install a copper transceiver module is the same, except that the copper transceiver module

How Do I Ensure that the Transmit and Receive Optical Power of an ...

The diagnostic information of the optical module displays the current transmit and receive optical power values, as well as the default maximum and minimum power values. If the receive

400G vs 800G Optical Modules: Differences, Use Cases, and

Compare optical modules for data centers and AI clusters. Learn key differences in standards, power, cabling, and use cases.

HUAWEI HiSecEngine USG6600F&USG6700F Series Firewalls

Simplified O&M By leveraging fresh-new hardware and software architectures of forwarding and control separation, the HiSecEngine USG6600F&USG6700F Series AI firewalls dynamically allocate

SFP vs SFP+ vs QSFP28 vs QSFP-DD: 2026 Optical

SFP vs SFP+ vs QSFP28 vs QSFP-DD: Master optical transceiver selection for 1G to 800G AI networks with our lab-verified guide.

Opinion: optical transceivers at the chokepoint of AI

As AI infrastructure accelerates at an unprecedented pace, optical connectivity has become one of the defining enablers and constraints of next

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