

Huawei supports optical modules



Overview

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Key Takeaways

Huawei supports a wide range of optical modules, including SFP, SFP+, SFP28, XFP, QSFP+, QSFP28, and CFP, compatible with its switches, routers, and data center devices. Supported Module Types and Form Factors

Huawei optical modules are designed for electrical-to-optical conversion in fiber optic networks and come in various form factors to meet different transmission requirements :

- SFP (Small Form-Factor Pluggable): Supports Gigabit Ethernet with LC fiber connectors.
- eSFP (Enhanced SFP): Monitors voltage, temperature, bias current, and optical power.
- SFP+: High-speed 10G transmission.
- SFP28: Supports 25G transmission, same interface size as SFP+.
- XFP: 10G transmission, wider and longer than SFP+.
- QSFP+ (Quad SFP): Supports 40G transmission with MPO fiber connectors.
- QSFP28: Supports 100G transmission or 40G QSFP+ modules.

- CFP (Centum Form-Factor Pluggable): Used for high-speed data communication, larger dimensions for 100G+ applications. All Huawei optical modules are hot-swappable, allowing easy installation and replacement without powering down devices .

Transmission Rates and Applications

Huawei modules cover a wide range of transmission rates from Gigabit Ethernet (GE) to 800GE, suitable for:

- Data centers
- Enterprise networks
- 5G fronthaul scenarios
- Metropolitan area networks High-end modules, such as QSFP DD and 800GE modules, provide ultra-long transmission, high reliability, and secure operation, ensuring stable and resilient network performance .

Device Compatibility

Huawei optical modules are compatible with Huawei S series switches, including:

- S6720S series: Supports 10G SFP+, 40G QSFP+, and 25G DWDM SFP28 modules for 5G fronthaul .
- Other Huawei switches and routers: Support CFP, QSFP+, QSFP28, XFP, SFP, eSFP, and SFP+ modules depending on the interface and transmission rate . Additionally, Huawei modules are often compatible with third-party optical modules from brands like ETU-LINK, Cisco, Juniper, and H3C, provided they meet the required specifications and pass compatibility testing .

Key Features

- Plug-and-play flexibility for various interfaces.
- Monitoring capabilities in eSFP modules for voltage, temperature, and optical power.
- High reliability and security for data center interconnectivity.
- Wide coverage from 1G to 800G transmission rates . Huawei optical modules provide a comprehensive solution for modern networking needs, ensuring compatibility across multiple devices and high-performance network environments.

Article Content

Optical Modules for Huawei S Series Switches

To determine whether optical modules delivered for Huawei switches before January 1, 2016 are certified ones, contact Huawei

Optical Modules in General-Purpose Computing Scenarios

Huawei offers a comprehensive portfolio of pluggable StarryLink optical modules for data center networks, with various models

What Is StarryLink Optical Module? Why Do We Need It?

To address these demands, Huawei has launched the StarryLink optical module brand. And to keep up with the rapid

StarryLink Optical Module

In the AI era, Huawei provides a full range of GE to 800GE optical modules, featuring three major capabilities: Spanning (ultra-long

WHAT IS AN OPTICAL MODULE AND ITS FAQs (V200)

As an important part of fiber-optic communication, an optical module is a photoelectric converter which converts electrical signals into

Huawei PON SFP Modules | GPON XG-PON XGS-PON & 50G-PON

These modules support transmission distances up to 60 km, provide excellent optical budgets, and are optimized for

Checking the Optical Module Type

When certifying an optical module, Huawei switches comprehensively verify optical module functions to ensure the optical module

01-10 OPTICAL MODULES

Huawei S series devices support optical modules of the following encapsulation types: CFP, QSFP+, QSFP28, XFP, SFP, eSFP,

Huawei Optical Module Common Models

Optical modules are important devices in fiber optic communication systems. Huawei Optical Module is manufactured by Huawei

Displaying Optical Module Information

Displaying Optical Module Information You can use the display commands to view information about the optical module on an

Types of Optical Modules

Huawei S series devices support optical modules of the following encapsulation types: CFP, CFP2, QSFP+, QSFP28, XFP, SFP,

Types of Optical Modules

Optical modules are encapsulated in different modes to provide different structures. Huawei routers support optical modules of the

Optical Module: Typical Optical Module Troubleshooting Procedure

Check the model of the faulty optical module. If it is not a Huawei-certified optical module, replace it with a Huawei-certified optical

Fundamentals of an Optical Module

Fundamentals of an Optical Module As an important part of fiber-optic communication, an optical module is a photoelectric converter

Optical Modules in Intelligent Computing Scenarios

Huawei provides a full series of pluggable optical modules. A wide variety of modules give you flexible plug-and-play options for all

10GE SFP+ Optical Modules

Fan Modules Installing a Power Surge Protector Pluggable Modules for Ports Understanding Optical Modules Understanding Copper

Understanding Optical Modules

Understanding Optical Modules Appearance and Structure of an Optical Module Types of Optical Modules Optical Module Terms

Installing Optical Transceivers and Connecting Optical Fibers

The USG supports both 1 Gbit/s, 10 Gbit/s, and 40 Gbit/s optical modules. The optical modules at both ends are the same, including

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