Huawei 10 Gigabit SC Interface Optical Module



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 10 Gigabit optical modules (SFP+) support high-speed 10GE transmission over single-mode or multi-mode fiber with varying wavelengths and distances, suitable for data centers, enterprise, and carrier networks.

Overview

Huawei 10Gbps SFP+ optical modules are designed for 10GE optical ports and support transmission rates up to 10 Gbps. They are widely used in data centers, backbone networks, and high-speed enterprise links. The modules come in different types based on wavelength, fiber type, and distance capabilities.

Key Specifications

Wavelengths: 850 nm (multi-mode), 1310 nm, 1550 nm (single-mode) depending on module type. Transmission Distance: Ranges from 0.5 km to 80 km, with common modules like SFP-10G-LR supporting 10 km over single-mode fiber. Media Type: Single-mode fiber (SMF) or multi-mode fiber (MMF) depending on the module.

Transmit Power: For SFP-10G-LR, -8.2 to +0.5 dBm. Receiver Sensitivity: For SFP-10G-LR, -12.6 dBm. Operating Temperature: 0°C to 70°C for standard modules.

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Connector Type: LC duplex for most SFP+ modules. Module TypesSFP-10G-LR: Single-mode fiber, 1310 nm, up to 10 km. Suitable for backbone and data center uplinks, providing stable 10GE performance over G.

652 fiber. SFP-10G-ER: Single-mode fiber, 1550 nm, designed for longer distances (up to 40 km), though compatibility with other 10G modules may reduce effective distance.

BID

I Modules (SFP-10G-BXD1 / BXU1): Single-fiber bidirectional modules must be used in pairs. Example: SFP-10G-ER-SM1270-BIDI pairs with SFP-10G-ER-SM1330-BIDI for proper operation.

Compatibility and Usage Notes

Backward Compatibility: 10Gbps modules can sometimes operate on Gigabit ports if the device allows rate adjustment, but this is not standard and may require configuration. Pairing Requirement: BIDI modules require a complementary module at the other end to function correctly. Applications: Ideal for spine-leaf architectures, metro aggregation, campus backbone links, and storage uplinks, reducing latency and improving network efficiency.

Huawei 10Gbps optical modules provide a reliable, high-performance solution for modern high-speed networks, offering flexibility in distance, wavelength, and fiber type to meet diverse deployment needs.

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.

10GE SFP+ Optical Modules

This document provides an overall description of the CE12800 series switches hardware, helping you obtain detailed information about each chassis, power module, fan module, card, cable, and

01-10 PLUGGABLE MODULES FOR INTERFACES

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

OPTICAL MODULES FOR HUAWEI S SERIES SWITCHES

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OSX010000 Datasheet Overview

Supported Switches Figure 1. OSX010000 can be installe. in the switch''s SFP slot. Table 2 shows the Huawei hot swit. ly Compare to Similar Items Table 3 shows the compariso. 85°F) Get more

Can Huawei''s 10Gbps optical module be connected to a Gigabit

However, the issue of whether Huawei''s 10Gbps optical module can be connected to a Gigabit optical port has triggered widespread discussion and concern. This article will explore this issue in depth in

Huawei OMXD30000 SFP+ 10Gbit/s Multi-mode Optical

Check Huawei OMXD30000 SFP+ Optical Transceiver specifications, features, connector type, cable, Operating Temperature, dimension and weight, buy

Huawei 02318169 SFP+ 10GBASE-SR Multimode Transceiver

Make troubleshooting, maintenance and monitoring in your network easier with the Digital Diagnostics Monitoring (DDM) / Digital Optical Monitoring (DOM) interface integrated into the 02318169

Huawei SFP-10G-LR-HU SFP+ 10GBASE-LR Singlemode Transceiver

Make troubleshooting, maintenance and monitoring in your network easier with the Digital Diagnostics Monitoring (DDM) / Digital Optical Monitoring (DOM) interface integrated into the SFP-10G-LR-HU

10G SFP+ Optical Transceivers | Transceiver Module

FS 10GbE SFP+ module solutions provide a wide variety of 10 Gigabit Ethernet connectivity options for data centers, enterprise wiring closets, Internet Service

10GE SFP+ Optical Modules

This document describes hardware components of the S9700, including the cabinet, chassis, power supply facilities, fan modules, cards, cables, and pluggable modules for interfaces.

SFP-10G-LR, Huawei SFP+ Optical Transceiver, 10G, 1310nm, 10km

Huawei SFP-10G-LR 10G SFP+ 1310nm 10km single-mode LC module for enterprise and carrier networks. Check real-time Huawei 10G SFP module price online. Global Shipping & Tech Support.

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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 the optical fiber type (single-mode or multi-mode), optical fiber

Optical Modules in General-Purpose Computing Scenarios

Huawei offers a comprehensive portfolio of pluggable StarryLink optical modules for data center networks, with various models providing flexible plug-and-play solutions tailored to diverse interface

Understanding Pluggable Optical Modules

A QSFP-DD optical module is a high-speed pluggable optical module defined by QSFP-DD MSA. CXP: hot-pluggable high-density parallel optics transceiver form factor, which provides 12 channels of

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 types of interfaces.

Types of Optical Modules

Wavelength division multiplexing modules differ from other optical modules in center wavelengths. A common optical module has a center wavelength of 850 nm, 1310 nm, or 1550 nm, whereas a

HUAWEI 10G 1550nm 80km SM SFP module

HUAWEI 10G 1550nm 80km SM SFP module OPTCORE 10GBASE-ZR SFP+ module is designed for use with ZTE 10G equipment and is equivalent to part number SFP-10G-ZR. It supports data-rate of

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