Huawei optical module transceiver



Overview

Installing Optical Transceivers and Connecting Optical FibersThis section describes how to install optical transceivers on the SFP or SFP+ ports and connec.

Key Takeaways

Huawei optical modules are high-performance, certified transceivers designed for reliable data transmission across enterprise and data center networks.

Overview of Huawei Optical Modules

Huawei optical modules are pluggable transceivers that enable high-speed data transmission over fiber optic networks. They come in various types, including SFP, SFP+, QSFP-DD, and GPON modules, supporting different speeds, wavelengths, and transmission distances. These modules are engineered to ensure compatibility with Huawei switches, routers, and OLT systems, providing stable and efficient network performance.

Types and SpecificationsSFP Modules: Typically support 100M to 1G speeds for short- and long-range connections. Example: SFP-FE-SX-MM1310, a 100M module certified by Huawei. SFP+ Modules: Support 10G speeds over single-mode or multi-mode fiber.

Example: SFP-10G-LR, operating at 1310nm with a 10km transmission range, ideal for enterprise networks and data centers. QSFP-DD Modules: High-density modules like QSFP-DD-400G-SR4 deliver 400Gbps over multi-mode fiber using 4-lane PAM4 modulation at 850nm, suitable for intra-rack and inter-rack connectivity.

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GPO

N Optical Modules: Used in OLT systems for fiber access networks, connecting to SC optical fibers to provide GPON services.

Certification and Compatibility

Huawei emphasizes the use of certified optical modules to ensure network reliability. Certified modules are verified for: Plug/unplug functionalityTransmit and receive optical powerSignal transmission qualityError tolerance and compatibilityElectromagnetic compatibility (EMC)Environmental performance Non-certified modules may cause installation issues, data bus suspension, or interface damage due to non-standard sizes or defective designs. Certified modules are labeled with "HUAWEI" and have firmware versions V200R008 or later for switches delivered after January 1, 2016.

Operational Considerations

Huawei optical modules support digital diagnostic monitoring (DDM), allowing network administrators to monitor temperature, voltage, current, optical power, and transmission distance. Modules are designed to be backward compatible with legacy slots (e.g., QSFP-DD modules compatible with QSFP+, QSFP28, QSFP56), protecting previous hardware investments.

Conclusion

Huawei optical modules with transceivers provide high-speed, reliable, and certified solutions for enterprise, data center, and GPON networks. Choosing certified modules ensures optimal performance, compatibility, and longevity of network infrastructure, while non-certified modules may introduce operational risks.

Article Content

Installing Optical Transceivers and Connecting Optical Fibers

This section describes how to install optical transceivers on the SFP or SFP+ ports and connect them to the ports of the peer device using optical fibers according to the network plan.

Huawei Optical Modules and Cables

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

Huawei PON SFP modules are carrier-grade optical transceivers designed for GPON XG-PON XGS-PON & 50G-PON broadband access networks.

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OMXD30000, Huawei SFP+ Optical Transceiver, 10G,

Huawei OMXD30000 10G SFP+ multi-mode 850nm 0.3km LC module ensures stable short-reach data center and campus links. Check specs and pricing now.

Optical Interface FAQ: Transceiver Compatibility Guidelines for

Overview & Thematic ScopeThis FAQ addresses one of the most critical operational decisions for network engineers managing Huawei OptiX OSN series equipment: the use of third-party ...

Huawei Optical Transceiver Prices

Huawei Optical Transceivers available at Telecomate comprise a comprehensive range of high-performance, hot-pluggable modules for versatile network connectivity.

HUAWEI Transceiver

What are the models of Huawei Gigabit optical transceivers? Huawei Gigabit optical transceiver models are: SFP-1.25G-LX10, 0231A562, 0231A564, 0231A563,

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

Installing an Optical Module

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 connects to a network cable instead

What Is an Optical Module and Its FAQs (V300)

If the label does not have a Huawei logo, run the display interface transceiver verbose command on the switch to check the vendor name of the optical module. If the value of Vendor

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.

Troubleshooting for Optical Modules on Huawei Switch

Check whether single-mode or multi-mode optical modules are used and whether the optical jumper type matches the transceiver modules. Run the display version command to check the software version.

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Huawei 02318169 Datasheet

Huawei 02318169 Datasheet Huawei OMXD30000 Optical Transceiver, SFP+, 10G, Multi-mode Module (850nm, 0.3km, LC)

Optical Module Troubleshooting

The optical module installed on the optical interface is not certified for Huawei data center switches. The optical module type does not match the optical fiber type.

Optical module

An optical module is a typically hot-pluggable optical transceiver used in high-bandwidth data communications applications. Optical modules typically have an electrical interface on the side that

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

Introduction Huawei PON SFP modules are carrier-grade optical transceivers designed for GPON XG-PON XGS-PON & 50G-PON broadband access networks. Widely deployed by Internet

Huawei Data Center Switch Optical Transceiver Portfolio

Description 100GBase-SWDM4 Optical Transceiver,QSFP+,100GE,Multi-mode Module(850,0.075km-OM3,0.1km-OM4,LC) 100GBase-CWDM4 Optical Transceiver,QSFP28,100G,Single-mode ...

A Guide to Huawei Optical Transceivers: OMXD30000

The Huawei OMXD30000 multi-mode optical transceiver is designed for short-range fibre connections within data centres, providing fast and reliable data transmission at a distance of up to

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