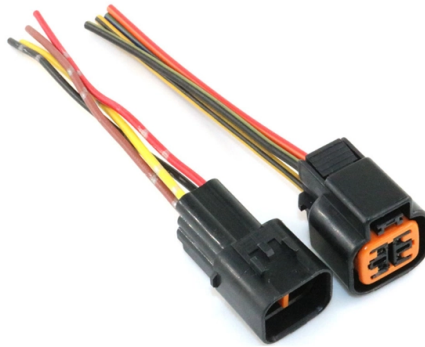


What model of Huawei optical module should I choose



AI Overview

Huawei offers a wide range of optical modules including SFP, SFP+, QSFP+, QSFP28, CFP, XFP, and eSFP, supporting transmission rates from 100M to 800GE for various networking scenarios.

Common Huawei Optical Module Types

- SFP (Small Form-factor Pluggable):** Supports Gigabit Ethernet (GE) and Fast Ethernet (FE) with LC fiber connectors. Ideal for standard network connections.
- eSFP (Enhanced SFP):** Similar to SFP but includes monitoring of voltage, temperature, bias current, transmit and receive optical power.
- SFP+:** High-speed SFP variant supporting 10GE, compatible with LC fiber connectors.
- SFP28:** Same interface size as SFP+, supports 25GE transmission.
- XFP:** 10 Gigabit small form-factor pluggable, larger than SFP+, supports LC fiber connectors.
- QSFP+ (Quad SFP+):** Supports 40GE, uses MPO fiber connectors, larger than SFP+.
- QSFP28:** Same interface as QSFP+, supports 100GE or 40GE depending on module type.
- CFP (Centum Form-factor Pluggable):** Large module supporting high-speed data communication, dimensions 144.75 mm x 82 mm x 13.6 mm, used in 100GE and above.
- CSFP:** Compact SFP variant for specific applications.

Transmission Rates and Applications

Huawei optical modules cover a broad range of speeds: 100M, 1GE, 10GE, 25GE, 40GE, 100GE, and up to 800GE for AI and data center networks. Modules are designed for plug-and-play deployment, supporting ultra-long transmission, high reliability, and secure operation in intelligent computing scenarios.

Certification and Compatibility

For Huawei switches, only certified optical modules ensure reliable transmission and service stability. Certification started for 10GE and lower in 2013, and for 40GE/100GE in 2016. Certified modules are labeled with "HUAWEI" and verified via commands like `display transceiver`. Using non-certified modules may affect network performance and is not supported by Huawei...

Article Content

How to Choose the Best Huawei OLT for Your Network Setup

Learn what to look for in a Huawei OLT, from key features to model comparisons and buying tips for optimal fiber network performance.

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 Optical Modules

If you know the model or type of an optical module, you can view the section "Pluggable Modules for Interfaces" in the Hardware Description to look up parameters of the optical module, including the

Huawei Unveils StarryLink Optical Modules That Deliver Ultimate

Barcelona, Spain (ANTARA/PRNewswire)- At the Mobile World Congress 2025 (MWC 2025), Huawei launched the StarryLink optical modules, designed to enhance network experiences

Checking Whether the Optical Fiber and Optical Module

Check whether the optical module and optical fiber match. A single-mode optical module (typically with a center wavelength of 1310 nm or 1550 nm) must be used

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 optical signals and vice versa. An optical module works at the physical

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 (ultra-high reliability), and Secure (ultra-solid

HUAWEI 3 U QUICK INSTALLATION MANUAL Pdf

Page 12 Installing Components 6.2 Installing Optical Modules NOTICE Huawei-certified optical modules need to be used. This is because the reliability of non

01-10 OPTICAL MODULES

Optical modules are available in various types to meet diversified requirements. Depending on transmission rates, optical modules are classified into 100GE, 40GE, 25GE, 10GE, FE, and GE

Understanding Optical Modules

Therefore, optical modules are also classified into single-mode and multimode modules to support different optical fibers. Single-mode optical modules are used with single-mode fibers.

Checking the Optical Module Type

When certifying an optical module, Huawei switches comprehensively verify optical module functions to ensure the optical module quality. The functions include the installation and removal, transmit and

10G to 100G: How to Choose the Right Huawei SFP, SFP+, and

This guide explains the key differences between Huawei SFP, SFP+, and QSFP modules and provides practical advice for selecting the right solution for your networking needs.

Types of Optical Modules

Optical modules are encapsulated in different modes to provide different structures. Huawei routers support optical modules of the following encapsulation types: SFP, eSFP, SFP+, XFP, and QSFP+.

Understanding Pluggable Optical Modules

Optical modules are available in various types to meet diversified requirements. Classified by transmission rates Currently, the transmission rates of optical modules cover a wide range.

Types of Optical Modules

Multimode optical modules are used with multimode fibers. Multimode fibers have lower transmission performance than single-mode fibers because of modal dispersion, but their costs are also lower.

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

Discover Huawei GPON and XG-PON SFP modules including Class B+, C+, C+ Pro, and D optics. Compare specifications, performance, compatibility,

How to Choose the Right Optical Transceiver in 2025

Learn how to select the right optical transceiver for your switch or router. Compare SFP, SFP+, QSFP28, Cisco SFPs, and Huawei modules with buying tips.

Huawei Optical Module Common Models

Optical modules are important devices in fiber optic communication systems. Huawei Optical Module is manufactured by Huawei Technologies Co. and originated in Shenzhen. Huawei Technologies Co.,

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

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

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

Introduction of Optical Modules on Huawei Switches

Introduction of Optical Modules on Huawei Switches On an optical network, a sender needs to convert electrical signals into optical signals before sending

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.

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