Huawei Common Optical Module Models

Overview

Optical Modules in General-Purpose Computing Scenarios Huawei offers a comprehensive portfolio of pluggable StarryLink optical modules for data center netw.

Key Takeaways

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 TypesSFP (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.

XF

P: 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.

CF

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P (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.

CSF

P: 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. Key FeaturesHot-swappable: All modules can be replaced without powering down the device. Monitoring: eSFP and higher-end modules provide real-time monitoring of operational parameters.

Interface flexibility: Huawei modules support LC, MPO, and AOC cable connections. High reliability: Modules include contamination detection, channel loss resistance, and secure operation for data center interconnectivity. Huawei's optical module portfolio provides flexible solutions for enterprise, data center, and AI networking environments, ensuring compatibility across a wide range of devices and transmission requirements.

Article Content

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

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.

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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

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

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,

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

100G/400G Optical Transceiver Platform Specification & Architectural ...

PRODUCT IDENTIFICATIONThis document serves as the definitive technical reference for the 100G/400G Optical Transceiver Family, a comprehensive suite of pluggable ...

100G/400G Optical Transceiver

EXECUTIVE SUMMARYThis document serves as the definitive technical reference and product datasheet for the next-generation 100G/400G Optical Transceiver family. Designed ...

Optical Module Solutions for Huawei S5700/S5720 Series Switches

This article summarizes several solutions for using optical modules with switches and common problems encountered during usage, along with specific solutions.

Introduction of Optical Modules on Huawei Switches

You may learn how to classify and check the optical modules from this article, thunder-link sales team will assist you for further questions about optical modules.

How to Choose the Right Fiber Optic Cable for Your Optical Transceiver

Learn how to choose the right fiber optic cable for SFP, SFP+, SFP28, QSFP+, QSFP28, QSFP-DD, and OSFP optical transceivers. Avoid common fiber compatibility mistakes and improve

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S5735-S48PN4XE-V2

Indicators and Buttons The S5735-S48PN4XE-V2 has similar indicators to those on the S5735-S48U4XE-V2. For details, see the S5735-S48U4XE-V2.

Huawei AI CloudMatrix 384 – China''s Answer to Nvidia

Huawei is making waves with its new AI accelerator and rack scale architecture. Meet China''s newest and most powerful Chinese domestic solution,

S310-48P4S

S200, S300, S500, and S600 Hardware Description This document describes all the configuration commands of the device, including the command function, format, parameters, views, default level,

Huawei OLT PON Port Licensing FAQ: Expert Answers to Network ...

Pengenalan Activating PON ports on Huawei OLTs is a common point of confusion for network engineers and procurement specialists. The licensing model isn''t uniform across all hardware and

Huawei CloudEngine S5755-S Series Twins Switches Datasheet

These capabilities make Huawei CloudEngine S5755-S-HT series twins switches ideal for mission-critical environments with stringent reliability requirements, such as production and manufacturing,

Understanding Optical Modules

A common optical module has a center wavelength of 850 nm, 1310 nm, or 1550 nm, whereas a wavelength division multiplexing module transmits lights with different center wavelengths.

What Are the Common Types of Optical Modules?

What Are the Common Types of Optical Modules? Classification by Transmission Rate To meet various transmission rate requirements, optical modules with different rates are provided, including 400GE,

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