Huawei Optical Module Series



Overview

Optical Modules in Intelligent Computing Scenarios In the AI era, Huawei provides a full range of GE to 800GE optical modules, featuring three major capabi.

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

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.

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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 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

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

01-10 OPTICAL MODULES

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Huawei S series devices support optical modules of the following encapsulation types: CFP, QSFP+, QSFP28, XFP, SFP, eSFP, and SFP+. All optical modules are hot swappable.

Huawei Optical Modules and Cables

Buy Genuine Huawei Optical Modules and Cables from GenuineModules with best price and fast worldwide shipping.

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.

WHAT IS AN OPTICAL MODULE AND ITS FAQS (V200)

CloudEngine series switches must use optical modules that are certified for Huawei data center switches. Optical modules that are not certified for Huawei data center switches cannot ensure

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

From urban FTTH deployments to long-distance rural broadband projects, Huawei optical modules offer the performance, reliability, and flexibility required to build next-generation access

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.

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

Huawei GPON Optical Module

Huawei MA5600T series only support GPON and XG-PON; MA5800 series supports GPON, XG-PON, XGS-PON, XG-PON&GPON Combo, XGS

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 which converts electrical signals into optical signals and vice versa. An

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

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What Is StarryLink Optical Module? At MWC 2025, Huawei officially launched the StarryLink optical module to the global market. The StarryLink optical module series is designed to

Huawei Recognized as a Leader in the 2025 Gartner ...

• AI NEs: Leveraging the CloudEngine series data center switches and StarryLink optical modules, Huawei implements high-precision traffic awareness and visualized monitoring of network

Huawei 40G QSFP Switch Guide: CE6800 & CE12800 Specs

Filter Huawei 40G switches by price range ($1,500 - $3,000) Compare CE6800 and CE8800 series for specific 40G aggregation needs Find more SR4/LR4 transceiver modules from verified Gold

Huawei CloudEngine S5755-H Series High-Quality 2.5GE Optical

Huawei CloudEngine S5755-H Series High-Quality 2.5GE Optical Switches Datasheet CloudEngine S5755-H series High-Quality 2.5GE Optical switches are brand-new access switches that provide

Pag-troubleshoot sa Huawei MA5608T vs MA5800-X2: Mga Optical

Kapag nagpaplano ng pag-upgrade ng network o bagong FTTH/FTTB deployment, napakahalagang maunawaan ang pagkakaiba sa pagitan ng Huawei MA5608T at MA5800-X2. Parehong mahalaga

HUAWEI eKitEngine AR580 Series Converged Gateway Datasheet

Huawei eKitEngine AR580 series gateways can be deployed at the egress of the headquarters or branches of small- and medium-sized enterprises (SMEs). The series includes AR580, AR580 Plus,

Huawei Unveils the Upgraded Xinghe AI Fabric 2.0 ...

Moreover, Huawei unveiled the full series of 800GE/400GE StarryLink optical modules, which stand out due to their reliability that is twice the industry average and ultra-long transmission capabilities,

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