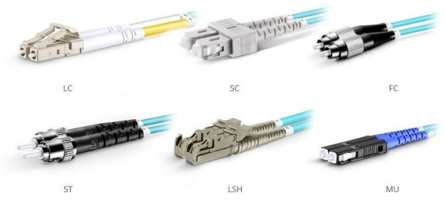
How many versions of Huawei s optical modules are there



OM3 Fiber Patch Cable Family

Overview

FAQs About Optical Modules For details about the optical modules supported by optical ports on switches, see "Appearance and Structure" of a specific switc.

Key Takeaways

Huawei offers a wide range of optical modules spanning GE to 800GE, with multiple form factors and transmission rates to meet diverse networking needs. Classification by Transmission RateHuawei optical modules are categorized based on their data transmission rates: FE (Fast Ethernet) and GE (Gigabit Ethernet)10GE (10 Gigabit Ethernet)25GE (25 Gigabit Ethernet)40GE (40 Gigabit Ethernet)100GE (100 Gigabit Ethernet)200GE, 400GE, and 800GE for high-performance data center and AI applications.

Form Factors and Module Types

Huawei modules come in various pluggable form factors to support different network devices: SFP (Small Form-factor Pluggable) – standard for GE connectionseSFP (Enhanced SFP) – supports monitoring of voltage, temperature, and optical powerSFP+ – higher-speed 10GE connectionsSFP28 – supports 25GE connectionsXFP – 10GE modules, larger than SFP+QSFP+ – 40GE modules, supports MPO fiber connectorsQSFP28 – 100GE modulesCFP – centum form-factor pluggable for high-speed 100GE and above. Single-mode vs Multi-modeSingle-mode modules are used for long-distance transmission and may require optical attenuators depending on the power and distance.

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Multi-mode modules are suitable for short-distance connections, typically within data centers or campus networks.

Specialized Modules for AI and Data Centers

Huawei also provides high-end modules for AI and intelligent computing scenarios, covering GE to 800GE, with features like ultra-long transmission, high reliability, and enhanced security. These modules are designed for resilient data center interconnectivity and support flexible plug-and-play options.

Common Models

Some of the widely used Huawei optical module models include: Gigabit SFP Optical Modules10 Gigabit SFP+ Optical Modules40G QSFP+ Optical Modules100G QSFP28 Optical ModulesQSFP DD (Double Density) modules for higher bandwidth applications. SummaryHuawei's optical modules are diverse in transmission rates, form factors, and capabilities, ranging from basic GE SFPs to advanced 800GE modules for AI and data centers. The exact number of versions is extensive and continuously updated, as Huawei provides modules for different speeds, distances, and device compatibility, all certified for reliability and performance.

Article Content

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 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

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.

WHAT IS AN OPTICAL MODULE AND ITS FAQS (V200)

There are various types of optical modules, and their appearances and structures are different. However, the basic structure of an optical module includes some common parts, as shown in Figure

Huawei Optical Module Common Models

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

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

A 40GBASE-PAM4 optical module can interoperate with a 40GBASE-ePAM4 optical module. A 100GBASE-CLR4 optical module can interoperate with a 100GBASE-CWDM4 optical ...

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

Huawei Unveils StarryLink Optical Modules That Deliver Ultimate

To address these challenges, Huawei''s StarryLink optical modules deliver a high-quality network experience with three key capabilities:

Types of Optical Modules

Optical modules are available in various types to meet diversified requirements. Classified by transmission rates Depending on transmission rates, optical modules are classified into FE, GE,

Understanding Optical Modules

Industrial Optical Modules Understanding Optical Modules What Is an Optical Module Types of Optical Modules Parameter Description How to View Optical Module Parameters Rules for Optical Module

Types of Optical Modules

CloudEngine 8800, 7800, 6800, and 5800 Series Switches Hardware Description (Versions earlier than V200R020C00) This document provides an overall description of the CE5800&6800&7800&8800

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

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Understanding Optical Modules

Cards Cables Pluggable Modules for Interfaces Important Notes About Using Optical Modules Certified for Huawei Switches Understanding Optical Modules What Is an Optical Module Parameter Description

Understanding Optical Modules

Understanding Optical Modules Optical Module Appearance and Structure Types of Optical Modules Optical Module Terms Rules for Optical Module Interoperation

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

The StarryLink optical module is a core component developed by Huawei for data center networks. It delivers ultra-long-distance transmission, exceptional reliability, and enhanced security,

Understanding Optical Modules

CloudEngine 16800 Series Switches Hardware Description (V300) This document provides an overall description of the CE16800 series switches hardware that V300R020C00 and later versions, helping

Understanding Optical Modules

Important Notes About Using Optical Modules Certified for Huawei Switches Understanding Optical Modules What Is an Optical Module Types of Optical Modules

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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