What optical modules are used in Huijue core switches



Overview

What Is an Optical Module and Its FAQs (V200) CloudEngine series switches must use optical modules that are certified for Huawei data center switches. Opti.

Key Takeaways

Use Huawei-certified optical modules that match the switch port type, speed, and fiber type to ensure reliable operation.

Certification and Compatibility

Huawei switches require optical or copper modules that are certified by Huawei. Non-certified modules may cause transmission issues, service instability, and are not supported by Huawei technical support. Certified modules typically have the HUAWEI label, and their details can be verified using commands like display transceiver or display version on the switch.

Modules delivered after July 1, 2013, are generally certified if they meet these criteria. Module Types and SpeedSFP (Small Form-factor Pluggable): Common for 1G connections. SFP+: Supports 10G connections.

QSFP/QSFP28: Used for 40G or 100G uplinks. It is important to match the module speed to the port speed. For example, do not use a 10G SFP+ module on a 1G interface, as this will prevent the port from functioning.

Fiber Type ConsiderationsSingle-mode fiber (SMF): Typically used for long-distance connections (up to 10 km or more).

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Use L

R (Long Reach) modules. Multi-mode fiber (MMF): Used for short-distance connections (≤ 300–400 m).

Use S

R (Short Reach) modules. Do not mix single-mode and multi-mode fibers or modules, as this can cause connectivity issues.

Practical Tips

Check optical power and wavelength: Use display transceiver interface xgigabitethernet 0/0/x verbose to verify the module's received and transmitted power levels. Perform loopback tests: Connect the fiber jumper to the same module to check for abnormal conditions. Hot-swapping: Most Huawei modules support hot-swapping, allowing replacement without shutting down the switch.

Future-proofing: For SMBs or data centers, consider 10G SFP+ LR or 100G QSFP28 LR4 modules depending on your upgrade path.

Recommended Approach

Always use Huawei-certified modules or fully tested third-party modules verified for Huawei switches. This ensures network stability, proper recognition by the switch, and warranty support. For specific switch models like S5700 or S5720 series, refer to the model-specific optical module guides to select compatible modules.

Article Content

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

Types of Optical Modules

This document describes hardware components of the S9700, including the cabinet, chassis, power supply facilities, fan modules, cards, cables, and pluggable modules for interfaces. You can find

How to make Huijue compatible with other optical modules

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

What types of Huijue optical modules are there

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Buy Genuine Huawei Optical Modules and Cables from GenuineModules with best price and fast worldwide shipping. Huawei switches support optical modules of the following encapsulation types:

Can Huijue switches use Huawei optical modules

The Huawei-developed optical modules of CE series switches support two types of optical connectors: lucent connectors or local connectors (LCs) and Multi-fiber Push On (MPO) connectors.

Where are the optical modules in the Huijue switch

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

What optical modules are used in Huijue core switches

What optical modules are used in Huijue core switches A switch must use optical or copper modules that have been certified for use on Huawei S switches. Non-certified optical or copper modules cannot

Huijue Single-Core Optical Module Insertion Method

This article serves to describe the underlying mechanisms that affect the insertion loss (IL) of a fiber optic connection, and presents a model to describe connector performance in smaller-core fiber.

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What Is an Optical Module and Its FAQs

Can Purchased Optical Modules Be Used on CloudEngine Series Data Center Switches? What Can I Do If Interconnected Optical Modules on Different CloudEngine Series Data Center Switches Cannot

Types of Optical Modules

The transmit power of a long-distance optical module is often larger than its overload power. Therefore, when using such optical modules, select optical fibers of an appropriate length to ensure that the

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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.

Understanding Optical Modules

This document provides an overall hardware description of XH series switches CloudEngine XH16800-8 and CloudEngine XH16800-16, helping you obtain detailed information about each chassis, power

Optical Fiber

Use a multimode fiber jumper for a multimode optical module. Use a single-mode fiber jumper for a single-mode optical module. Determine the optical connector type based on the interface type.

Guide to Using Optical Modules

This document provides an overall description of the CE6800&8800&9800 series switches hardware that V300R020C00 and later versions, helping you obtain detailed information about each chassis, power

What Is an Optical Module and Its FAQs (V200)

Describes what an optical module is and FAQs, including the fundamentals, appearance and structure, key performance counters, common types, and naming conventions of optical modules, causes of

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

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