

Huawei Non-Removable Optical Module



Overview

Understanding Pluggable Optical Modules If you cannot push the optical module into an optical module cage any longer, the optical module is in good contact.

Key Takeaways

Non-removable Huawei optical modules are built-in components that cannot be replaced, unlike pluggable optical modules, and require certified modules for reliable operation. Key Characteristics

Huawei non-removable optical modules are integrated into the device and cannot be physically replaced by the user. Only external, pluggable optical modules can be swapped without powering down the device. Non-removable modules are designed to ensure stable transmission and service reliability, and using non-certified or third-party modules may trigger alarms or affect network performance.

Replacement and Maintenance

Since non-removable modules cannot be replaced, maintenance focuses on monitoring performance and ensuring proper operation. For pluggable modules, Huawei recommends:

- Using Huawei-certified optical modules to maintain transmission reliability.
- Taking ESD protection measures when handling modules, including wearing wrist straps or gloves.



- Ensuring the new module matches the center wavelength and standards of the original module .
 - Carefully handling optical fibers to avoid damage to connectors and modules .
- Operational Considerations

Non-removable modules are typically hot-swappable in pluggable form factors, but built-in modules remain fixed. Huawei devices perform authentication on inserted modules, and non-certified modules may generate alarms in port logs . Commands are available on some switches to suppress alarms for third-party modules, but using uncertified modules is not recommended for production networks .

Example of Huawei Optical Module

The Huawei OSN010N24 100G QSFP28 LC 10km optical transceiver is an example of a high-performance pluggable module. It supports 100Gbps over single-mode fiber, operates at 1310nm wavelength, and complies with IEEE 802.3ba 100GBASE-LR4 standards. It features hot-pluggable QSFP28 form factor, LC duplex interface, and Digital Diagnostic Monitoring (DDM) for real-time tracking of optical power, temperature, voltage, and bias current .

Recommendations

- Always use Huawei-certified modules to ensure network stability and avoid service interruptions .
- For non-removable modules, focus on monitoring and diagnostics rather than replacement.
- Avoid using non-certified or third-party modules in critical environments, as they may affect service reliability and generate alarms .
- For purchasing, genuine Huawei optical modules and cables are available from authorized distributors .

Article Content

Understanding Pluggable Optical Modules

If you cannot push the optical module into an optical module cage any longer, the optical module is in good contact with the board

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

Huawei Optical Module Common Models

Optical modules are important devices in fiber optic communication systems. Huawei Optical Module is manufactured by Huawei

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

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

FCC Weighs Ban on New Chinese Optical Transceivers for AI Data

The FCC is reportedly drafting a ban on new Chinese optical transceiver models used in U.S. AI data centers, a move

Checking the Optical Module Type

Some non-certified optical modules are not designed in compliance with EMC standards and have low anti-interference capability.

Replacing an Optical Module

The CE12800E series switches must use Huawei data center switches certified optical modules. Non-certified optical modules

Replacing an Optical Module

A router must use Huawei-certified optical modules. Non-Huawei-certified optical modules cannot ensure transmission reliability and

Replacing an Optical Module

Use optical modules certified for Huawei data center switches. Non-certified optical modules cannot ensure transmission reliability

Understanding Pluggable Optical Modules

A QSFP-DD optical module is a high-speed pluggable optical module defined by QSFP-DD MSA. CXP: hot-pluggable high-density

StarryLink Optical Module

Huawei's StarryLink optical modules for data center networks offer seamless interconnection from GE to 800GE across all scenarios,

Troubleshooting for Optical Modules on Huawei Switch

The type of optical modules used on the two ports is not restricted. For example, a port with an XFP optical module can communicate

Important Notes About Using Optical Modules Certified for Huawei ...

Accessories Important Notes About Using Optical Modules Certified for Huawei Switches How to Identify Huawei-Certified Switch

Understanding Optical Modules

On an optical network, a sender needs to convert electrical signals into optical signals before sending them to a receiver, and the

Checking the Optical Module Type

When certifying an optical module, Huawei switches comprehensively verify optical module functions to ensure the optical module

Replacing an Optical Module

A switch must use optical or copper modules that have been certified for use on Huawei S switches. Non-certified optical or copper

Replacing an Optical Module

An optical module is an electrostatic sensitive device. Therefore, you must take antistatic measures during the whole

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

