

Huawei Switch Optical Module Certification



Overview

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

Key Takeaways

Huawei-certified optical modules are required for reliable operation on Huawei switches, and certification can be verified via labels, commands, and software version checks.

Certification Overview

Huawei requires that all optical and copper modules used on its switches be certified to ensure transmission reliability and service stability. Non-certified modules may function but can trigger alarms, cause link instability, or affect overall network performance, and Huawei does not provide support for issues caused by uncertified modules .

Certification Timelines

- 10GE and lower-speed modules: Certification started on July 1, 2013 .
 - 25GE, 40GE, and 100GE modules: Certification began on January 1, 2016 .
 - Modules delivered before these dates require confirmation from Huawei technical support to determine certification status .
- ### How to Identify Certified Modules
- Label Check: Certified modules have “HUAWEI” printed on the label .

- Command Verification: On Huawei switches, run the following commands:
- display elabel: The Manufactured field should show a date after the certification start date.
- display version: The software version should be V200R001C00 or later for 10GE and lower, and V200R008 or later for 25GE/40GE/100GE modules.
- display transceiver: The Vendor Name field should display HUAWEI .
- Special Cases: For high-speed or AOC cable-connected modules, the Vendor Name may show the original manufacturer. In such cases, contact Huawei technical support to confirm certification .

Supported Module Types

Huawei S series switches support a variety of optical module types, including: SFP, eSFP, SFP+, XFP, QSFP+, QSFP28, and CFP. Modules are classified by transmission rate: FE, GE, 10GE, 25GE, 40GE, and 100GE. All certified modules are hot-swappable and undergo comprehensive testing for plug/unplug functionality, optical power, signal quality, error tolerance, EMC, and environmental parameters .

Operational Considerations

- Using non-certified modules may cause frequent link up/down events, alarms in port logs, and potential service instability .
- Huawei does not provide support or warranty for issues caused by uncertified modules.
- For third-party modules, alarms can often be suppressed, but reliability is not guaranteed .

Summary

To ensure network stability and compliance, always use Huawei-certified optical modules. Verify certification via labels, switch commands, and software versions, and consult Huawei technical support for modules with ambiguous certification status. Certified modules are tested for performance, compatibility, and environmental compliance, making them the recommended choice for all Huawei switch deployments .

Article Content

How to Identify Huawei-Certified Switch Optical Modules

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

How to Identify Huawei-Certified Switch Optical Modules

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

S210 Series Switches Pluggable Modules for Interfaces Certified

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

Checking the Optical Module Type

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

How Huawei CE & S Series Switches Handle Non-Certified Optical

Huawei CE and S series switches both incorporate an optical module authentication mechanism. On S series switches,

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

StarryLink Optical Module

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

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

How to Identify Huawei-Certified Switch Optical Modules

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

How to Identify Huawei-Certified Switch Optical Modules

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

Learning and Certification Service

Learning and Certification Service Technology makes things work. And people make technology work.

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

Optical Modules for Huawei S Series Switches

An optical module has received Huawei switch certification if it meets the following conditions: In the display elabel command output,

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

100GE QSFP28 Optical Modules Important Notes About Using Optical Modules Certified for Huawei Switches How to Identify

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

Cards Cables Pluggable Modules for Interfaces Important Notes About Using Optical Modules Certified for Huawei

How to Identify Huawei-Certified Switch Optical Modules

Huawei started certification on 10GE or lower speed optical modules for S switch products on July 1, 2013.

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

Industrial Optical Modules Important Notes About Using Optical Modules Certified for Huawei Switches How to Identify Huawei

Are the CloudEngine Series Switches Required to Use Optical Modules ...

The CloudEngine series switches must use optical modules that are certified for Huawei Ethernet switches. Optical or copper

How to Identify Huawei-Certified Switch Optical Modules

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

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

S12700 Cards Cables Pluggable Modules for Interfaces Important Notes About Using Optical Modules Certified for

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

Huawei started certification on 25GE, 40GE, and 100GE optical modules for S switch products on January 1, 2016. To

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

100GE QSFP28 Optical Modules Important Notes About Using Optical Modules Certified for Huawei Switches How to Identify

How to Identify Huawei-Certified Switch Optical Modules

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

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

S12700 Cards Cables Pluggable Modules for Interfaces Important Notes About Using Optical Modules Certified for

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

Huawei started certification on 25GE, 40GE, and 100GE optical modules for S switch products on January 1, 2016. To

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

100GE QSFP28 Optical Modules Important Notes About Using Optical Modules Certified for Huawei Switches How to Identify

How to Identify Huawei-Certified Switch Optical Modules

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

How to Identify Huawei-Certified Switch Optical Modules

Huawei started certification on 25GE, 40GE, and 100GE optical modules for S switch products on January 1, 2016. To

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

Huawei started certification on 25GE, 40GE, and 100GE optical modules for S switch products on January 1, 2016. To

How to Identify Huawei-Certified Switch Optical Modules

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

How to Identify Huawei-Certified Switch Optical Modules

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

How to Identify Huawei-Certified Switch Optical Modules

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

How Huawei CE & S Series Switches Handle Non-Certified Optical Modules

How Huawei CE & S Series Switches Handle Non-Certified Optical Modules
Background In past projects and testing experience, it

How to Identify Huawei-Certified Switch Optical Modules

Figure 10-1 "HUAWEI" on the label of a Huawei-certified switch optical module
Method 2: Run the command An optical

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

Why Are Alarms About Optical Modules That Are Not Certified for Huawei ...

Therefore, alarms about optical modules that are not certified for Huawei Ethernet switches are generated. You can run

How to Identify Huawei-Certified Switch Optical Modules

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

How to Identify Huawei-Certified Switch Optical Modules

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

Learning and Certification Service

Learning and Certification Service Technology makes things work. And people make technology work.

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

Optical Modules for Huawei S Series Switches

An optical module has received Huawei switch certification if it meets the following conditions: In the display elabel command output,

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

100GE QSFP28 Optical Modules Important Notes About Using Optical Modules Certified for Huawei Switches How to Identify

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

Cards Cables Pluggable Modules for Interfaces Important Notes About Using Optical Modules Certified for Huawei

How to Identify Huawei-Certified Switch Optical Modules

Huawei started certification on 10GE or lower speed optical modules for S switch products on July 1, 2013.

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

Industrial Optical Modules Important Notes About Using Optical Modules Certified for Huawei Switches How to Identify Huawei

Are the CloudEngine Series Switches Required to Use Optical Modules ...

The CloudEngine series switches must use optical modules that are certified for Huawei Ethernet switches. Optical or copper

How to Identify Huawei-Certified Switch Optical Modules

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

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

S12700 Cards Cables Pluggable Modules for Interfaces Important Notes About Using Optical Modules Certified for

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

Huawei started certification on 25GE, 40GE, and 100GE optical modules for S switch products on January 1, 2016. To

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

100GE QSFP28 Optical Modules Important Notes About Using Optical Modules Certified for Huawei Switches How to Identify

How to Identify Huawei-Certified Switch Optical Modules

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

How to Identify Huawei-Certified Switch Optical Modules

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

S210 Series Switches Pluggable Modules for Interfaces Certified

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

Checking the Optical Module Type

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

How Huawei CE & S Series Switches Handle Non-Certified Optical

Huawei CE and S series switches both incorporate an optical module authentication mechanism. On S series switches,

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

StarryLink Optical Module

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

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

huawei optical module | huawei networking products

Huawei switches must use Huawei-certified optical modules. Non-Huawei-certified optical modules cannot ensure transmission

8 Pluggable Modules for Interfaces

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

How to Identify Huawei-Certified Switch Optical Modules

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

How to Identify Huawei-Certified Switch Optical Modules

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

S210 Series Switches Pluggable Modules for Interfaces Certified

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

Checking the Optical Module Type

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

How Huawei CE & S Series Switches Handle Non-Certified Optical

Huawei CE and S series switches both incorporate an optical module authentication mechanism. On S series switches,

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

StarryLink Optical Module

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

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

huawei optical module | huawei networking products

Huawei switches must use Huawei-certified optical modules. Non-Huawei-certified optical modules cannot ensure transmission

8 Pluggable Modules for Interfaces

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

Contact Us

Continue your research online:

Website: <https://alfa-pro.co.za>

Technical inquiry: <https://alfa-pro.co.za/contact.html>

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

