Huawei optical module flashing SN

Rear of the optical fiber distribution box

Overview

Typical Troubleshooting Cases of Optical Module Check whether an optical module is a bogus one. An optical module delivered by Huawei is uniquely identifie.

Key Takeaways

Flashing Huawei optical modules to modify the serial number (SN) requires specialized firmware tools, but using non-certified methods carries significant risks.

Overview

Huawei optical modules are designed to work with Huawei switches and other network devices. Each module has a unique serial number (SN), MAC address, and product code (PROD), which are used for identification, compatibility, and warranty purposes.

Modifying the S

N typically involves flashing the module firmware using specialized tools, often referred to as "public version flashing tools" ( ).

Flashing Tools and Firmware

Certain forum-shared tools, such as the Huawei Lightcat Completion V5R23/24 version, allow users to change the SN, MAC, and product codes of optical modules ( ). These tools can also modify the interface type and light mode of the module. Flashing usually requires connecting the module to a compatible host device and running the firmware update software.

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Risks and Considerations

Warranty and Certification: Modifying the SN or using non-Huawei-certified modules can void warranties and may cause the module to be rejected by Huawei switches ( ). Device Compatibility: Non-certified modules or incorrectly flashed modules may fail to operate, cause data bus errors, or damage the switch interface ( ). Network Impact: Removing or reinstalling modules, or flashing firmware, can disrupt live network services ( ).

Legal and Ethical Concerns: Changing SNs may violate local regulations or Huawei's terms of service.

Official Alternatives

Huawei recommends using Huawei-certified optical modules to ensure proper operation and compatibility ( ). For troubleshooting, commands like display transceiver interface or display transceiver diagnosis can provide module information without modifying the SN ( ). If a module is faulty, replacing it with a certified module is safer than attempting SN modification.

Summary

While it is technically possible to flash Huawei optical modules and modify the SN using specialized tools, this approach is unsupported by Huawei and carries risks including device malfunction, warranty voiding, and network disruption. For most users, the recommended approach is to use certified modules and rely on official diagnostic commands for troubleshooting and monitoring.

Article Content

Typical Troubleshooting Cases of Optical Module

Check whether an optical module is a bogus one. An optical module delivered by Huawei is uniquely identified by an SN. If two or more optical modules have the same SN, bogus optical modules are

Huawei optical module flashing SN

The following uses the Moduletek SFP-10G-LR module connected to a Huawei S6700 switch as an example to introduce how to read information of the connected optical module on a Huawei switch.

Displaying Optical Module Information

If the connected optical modules have the same wavelength and provide short-distance transmission but alarms indicating low or high optical power occur, the two optical modules may be from different

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Troubleshooting for Optical Modules on Huawei Switch

Check whether the optical module is Huawei-certified. If it is not certified by Huawei, replace it with a Huawei certified one. Remove and reinstall the optical module. ...

Huawei optical module flashing SN

If possible, remove and reinstall the optical modules to check whether the fault is rectified. Query the software version of devices on the live network. Call Huawei global service hotline or contact

Troubleshooting Huawei EG8145V5: Optical Interfaces, Stacking

Overview Welcome to the technical support FAQ for the Huawei EchoLife EG8145V5. This routing-type Optical Network Terminal (ONT) is a key component in Huawei''s all-optical access solution, utilizing

How To View Optical Transceiver Information On Huawei Switches

1. Transceiver identity information: model, wavelength, transmission distance, SN, manufacturer data stored in module EEPROM. 2. Real-time DDM values and alarm thresholds.

Optical Module Solutions for Huawei S5700/S5720 Series Switches

Problem: All optical ports cannot be connected, and the indicator lights are not on. Solution: To solve this problem, you can follow these steps: Check if the fiber and optical modules

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

Huawei Optical Switch View Optical Module Commands

Taking the Huawei 5700 series switches as an example, the commands to view optical module information are as follows: ... View the general, manufacturing, alarm, and diagnostic

display sn

You can run the display sn command to view the SNs of the device, optical module, and device components, which facilitates device management.

Displaying Optical Module Information

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When certifying an optical module, Huawei comprehensively verifies the functions of the optical module to ensure the optical module quality. The functions include the installation and removal, transmit and

Optical Module: Typical Optical Module Troubleshooting Procedure

If it is not a Huawei-certified optical module, replace it with a Huawei-certified optical module. If the optical module is installed on a GE port, run the display interface GigabitEthernet x/x/x command to

Displaying Optical Module Information

Displaying Optical Module Information You can use the display commands to view information about the optical module on an interface, including conventional information, manufacturing information, and

Checking the Optical Module Type

For the Huawei-certified optical modules, Huawei has added Huawei logo and identifier and changed the vendor information in the product elabel and optical module information into HUAWEI. When an

Optical Module Troubleshooting

The optical module installed on the optical interface is not certified for Huawei data center switches. The optical module type does not match the optical fiber type.

Displaying Optical Module Information

If an optical module on an interface is faulty, you can run the display commands to view information about the optical module. Related Information Video Identify a Huawei-Certified Optical Module

Checking Whether the Optical Fiber and Optical Module Match

Check whether the optical module and optical fiber match. A single-mode optical module (typically with a center wavelength of 1310 nm or 1550 nm) must be used with single-mode optical fibers (typically

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