Huawei Firewall Optical Module Configuration Method



Overview

Displaying Optical Module Information This document describes the principles and configurations of the Device Management features, and provides configurati.

Key Takeaways

To enable an optical module on a Huawei firewall, configure the combo port to operate in fiber mode, ensure the module is Huawei-certified, and verify proper fiber type and optical power levels. Steps to Enable the Optical Module1. Identify the Port Type Huawei firewalls often use combo ports, which can function as either electrical (copper) or optical (fiber) ports.

By default, these ports operate as electrical ports. You can check the port type using the interface view commands on the firewall. 2.

Configure the Combo Port for Optical Use Run the following command in system view to set the port to fiber mode: CodeCopycombo enable fiber This switches the combo port from copper to optical operation. Replace fiber with copper if you need to revert. 3.

Insert a Compatible Optical ModuleUse a Huawei-certified SFP or SFP+ module. Non-certified modules may work but are not guaranteed for stability or reliability. Ensure the module matches the fiber type: single-mode modules require single-mode fiber, and multi-mode modules require multi-mode fiber.

Verify the module's certification using: CodeCopydisplay esn interface The Certified field should display YES. 4.

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Connect the Optical Fiber Correctly

Ensure the TX and RX ports are correctly aligned; reversing them can prevent the link from coming up. Check that the fiber is not damaged and is compatible with the module type. 5.

Verify Optical Power and Link Status

Use the command: CodeCopydisplay this interface to check transmit (Tx) and receive (Rx) optical power. Values should be within the normal range; abnormal readings may indicate a faulty module, fiber, or peer device. Confirm the link status is UP and monitor for errors such as FCS or CRC errors.

6. Troubleshoot if NeededIf the port does not come up, check for mismatched speed, duplex, or negotiation settings between the firewall and the connected device. Replace the optical module or fiber if the problem persists.

By following these steps, you can successfully enable and operate an optical module on a Huawei firewall, ensuring stable fiber connectivity and optimal performance.

Article Content

Displaying Optical Module Information

This document describes the principles and configurations of the Device Management features, and provides configuration examples of these features.

Displaying Optical Module Information

To determine whether optical modules delivered for Huawei S switches before January 1, 2016 are certified ones, contact Huawei technical support. If your optical modules are delivered after January

How To View Optical Transceiver Information On Huawei Switches

Optical transceivers are widely applied in switches, network cards, routers and other communication devices. Checking transceiver parameters allows users to monitor real-time

01-04 FIREWALL CONFIGURATION

If you need to configure the firewall function, configure the zone on the tunnel interface, but not on the physical interface. Otherwise, the firewall function cannot take effect.

01-06 FIREWALL CONFIGURATION

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Most firewall configurations are performed in the interzone view. For example, zone1 and zone2 form an interzone. You can configure an ACL-based packet filter in the interzone view to filter data flows

HUAWEI USG6000E SERIES HARDWARE MANUAL

How can I backup and restore the configuration settings of my Huawei USG6000E Series Firewall? Before powering off the USG, ensure that configuration data is

Huawei USG6000 Series Manuals | ManualsLib

View online or download Huawei USG6000 Series Hardware Manual, Upgrade Manual.

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. ...

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.

Hardware Description_Onboarding USG6000E Series

You can run the combo enable { copper | fiber } command to configure a combo port to work as an electrical port or optical port as required. The ports are numbered as WAN0/0/0 and

HUAWEI Firewall Comprehensive Configuration Examples

This document provides comprehensive configuration examples for Huawei firewalls, including security policies, traffic management, and basic network settings.

Installing Optical Modules

The device must use optical or copper modules recommended on the configurator because non-Huawei-certified optical or copper modules cannot ensure transmission reliability and may affect service

How to Configure a Firewall: Deployment and Advanced Settings

How to Configure a Firewall: Deployment and Advanced Settings A firewall is a network security device that is usually located at the network border. Setting up a firewall for first-time is a critical task. This

Replacing an Optical Module

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The device must use optical modules recommended on the configurator because non-Huawei-certified optical modules cannot ensure transmission reliability and may affect service stability. Huawei is not

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

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

Understanding Optical Modules

10GE SFP+ Copper Modules Accessories Understanding Optical Modules What Is an Optical Module Types of Optical Modules Parameter Description How to View Optical Module Parameters Rules for

Troubleshooting Optical Module Issues

Check whether the label information of the optical module is the same as that of a Huawei-certified optical module from the appearance. Figure 8-4 compares a fake optical module with a Huawei

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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