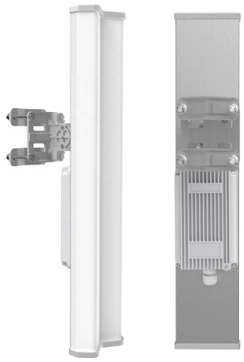
Huawei Firewall Optical Module Configuration



Overview

Troubleshooting Optical Module Issues Check whether the transmit optical power and receive optical power of the optical module are within the normal range.

Key Takeaways

Huawei firewall optical modules should be installed, verified, and monitored using certified modules and specific CLI commands to ensure proper operation and link stability.

Installation and Verification

Use Huawei-

Certified Modules: Always use Huawei-certified optical modules to ensure compatibility, reliability, and stability. Non-certified modules may cause interface errors, abnormal data bus behavior, or physical damage to the interface ( ). Physical Installation: Insert the optical module into the correct interface slot, ensuring the RX and TX ports are not reversed.

If the module is not recognized, re-insert it or check for damage to the module or fiber ( ). Check Certification: Run the command:display esn interface to verify if the module is Huawei-certified. The output should show Certified: YES for certified modules ( ).

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Monitoring and Configuration

View Interface Status: Use the command:display interface to check the interface rate, module type, link status (UP indicates normal operation), and traffic statistics ( ). Check Optical Power: To ensure proper transmission, verify the transmit (Tx) and receive (Rx) optical power:display this interface Normal Tx and Rx values indicate a healthy link. Abnormal values may indicate a faulty module, fiber, or peer device ( ).

Detailed Module Information: For in-depth diagnostics, run:display transceiver [interface | slot] display transceiver diagnosis interface These commands provide digital diagnostic monitoring (DMM) data, including temperature, voltage, current, wavelength, and transmission distance ( ).

Troubleshooting

Link Errors: If FCS or CRC errors occur, check fiber connections and replace faulty cables ( ). Module Replacement: If the optical module is damaged or power levels are abnormal, replace it with a certified module ( ). Environmental Considerations: Ensure proper ventilation, grounding, and ESD precautions during installation to maintain module and firewall longevity ( ).

Best Practices

Always use certified Huawei optical modules to avoid compatibility issues. Regularly monitor Tx/Rx power and interface statistics to detect early faults. Maintain proper installation environment including temperature, humidity, and grounding.

Document module serial numbers and interface assignments for easier maintenance and troubleshooting. By following these steps, Huawei firewall optical modules can be properly configured, monitored, and maintained to ensure stable network operation.

Article Content

Troubleshooting Optical Module Issues

Check whether the transmit optical power and receive optical power of the optical module are within the normal range. If the transmit optical power is beyond the normal range, replace the

Displaying Optical Module Information

Learn how to display optical module information effectively with Huawei''s technical support guide.

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

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HUAWEI USG6000 SERIES FIREWALL HARDWARE

You are advised to install an anti-theft board delivered with the device to protect the micro SD card.

01-04 FIREWALL CONFIGURATION

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

Hardware Description_Onboarding USG6000E Series

By default, a combo port works as the electrical port. You can run the combo enable { copper | fiber } command to configure a combo port to work as an electrical port or optical port as

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

Huawei Switches Viewing Optical Port Receiving and Sending

Use the command display transceiver to view the optical module information of all optical ports, and use the command display transceiver interface interface-type interface-number to view the

Optical Interface FAQ: Transceiver Compatibility Guidelines for

Overview & Thematic ScopeThis FAQ addresses one of the most critical operational decisions for network engineers managing Huawei OptiX OSN series equipment: the use of third-party ...

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:

Installing Optical Transceivers and Connecting Optical Fibers

Installing Optical Transceivers and Connecting Optical Fibers This section describes how to install optical transceivers on the SFP or SFP+ ports and connect them to the ports of the peer device using

Installing Optical Modules

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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

Hardware Description_Onboarding USG6000E Series Firewalls

ALM-3276800044 An Optical Module Installed on the Device Is Not a Huawei-Certified Optical Module ALM-3276800045 Indicates that the board ports conflict with each other

Displaying Optical Module Information

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

HUAWEI USG6000E SERIES HARDWARE MANUAL Pdf Download

How can I troubleshoot common connectivity issues with my Huawei USG6000E Series Firewall? When troubleshooting optical port connectivity issues, if the indicator is off, it suggests the link is disconnected.

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

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