

Huawei S12700 Switch Optical Power



Article Overview

Huawei S12700 switches require careful management of optical power to ensure safe and reliable operation, with certified optical modules recommended to prevent damage.

Optical Power Overview

The S12700 series switches support optical modules for data transmission, including 10G optical ports, and the optical power must be within safe operating limits to avoid damage to the module or the switch interface. Exceeding the upper threshold of optical power can burn the avalanche photodiode (APD) in the module, potentially causing temporary or permanent communication failures. Conversely, optical power below the lower threshold can result in signal loss or link instability.

Certified Optical Modules

Huawei strongly recommends using Huawei-certified optical modules, which are tested for transmit/receive power, signal quality, fault tolerance, and environmental performance. Non-certified modules may cause:

- Installation issues due to nonstandard size or structure
 - Data bus abnormalities affecting device operation
 - Damage to electronic components from improper edge connectors
- Using certified modules ensures reliable optical power levels and prevents hardware damage.

Monitoring and Troubleshooting Optical Power

To view optical power on a specific interface, use the command:

Article Content

S12700 SERIES AGILE SWITCHES PRODUCT DESCRIPTION

The S12700 series switches come in four models: S12704, S12708, S12710, and S12712. The maximum numbers of line processing

S12700 Series Agile Switches Product Description

Huawei S12700 series agile switches are core switches designed for next-generation campus networks. Using a fully programmable

CloudEngine S12700H Series Switches

CloudEngine S12700H series switches are Huawei's next-generation modular core/aggregation switches designed for high-end

S12700 Series Agile Switches

HUAWEI S12700 series agile switches are designed for next-generation campus networks. Using a fully programmable switching

CloudEngine S12700E Series Switches | Huawei Enterprise

Huawei CloudEngine S12700E series switches deliver high performance, unmatched security and reliability at the core of high-end

S12700 Series Agile Switches

Each S12700 switch can manage up to 6,144 APs and 65,536 users. It is a core switch that provides 4 Tbit/s AC capabilities,

Appendix E Guide to Using Optical Modules

This document describes hardware installation procedures of the S12700 series switches, troubleshooting methods for common

S12700 and S12700E Series Agile Switches Hardware Installation and ...

This document describes hardware installation procedures of the S12700 series switches, troubleshooting methods for common

S12700 Series Agile Switches

S12700 Series Agile Switches Huawei S12700 series switches are core switches designed for next-generation high-quality campus

How to View Optical Module Parameters

If an optical module is installed in a running device, you can run the display transceiver command to view parameters of the optical

Understanding Optical Modules

About This Document Using the Info-Finder Version Requirements for Components
Cabinets Chassis Power Supply Facilities Fan

Connecting Switches

This document describes hardware installation procedures of the S12700 series switches, troubleshooting methods for common

Huawei S12700 Series Agile Switches Datasheet

Discuss the energy efficiency strategies employed in the S12700 series switches and their potential impacts. The S12700 series uses

S12700 AND S12700E V200R024C00 CONFIGURATION GUIDE

This document is intended for network engineers responsible for switch configuration and management. You should be familiar with

Installing Optical Modules and Connecting Optical Fibers

This document describes hardware installation procedures of the S12700 series switches, troubleshooting methods for common

S12700 Series Agile Switches Product Description

Product Characteristics Huawei S12700 series agile switches are core switches designed for next-generation campus networks.

Huawei S12700 Datasheet

Based on Huawei's Virtual Routing Platform (VRP), the S12700 combines L2/L3 switching with rich network services including MPLS

Displaying Optical Module Information

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

CLOUDENGINE S12700E SERIES SWITCHES PRODUCT

The S12700E series switches adopt next generation switch fabric (NGSF), and use the cell switching technology to reduce the

Setting Optical Power Alarm Thresholds

If non-Huawei-certified optical modules are used, incorrect optical module information may be obtained during the query of optical

Huawei S7700, S8700, S9700, S12700 and S16700 Switches Support

S7700& S8700& S9700& S12700& S16700 Series: Access product manuals, HedEx documents, product images and visio stencils.

Contact Us

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