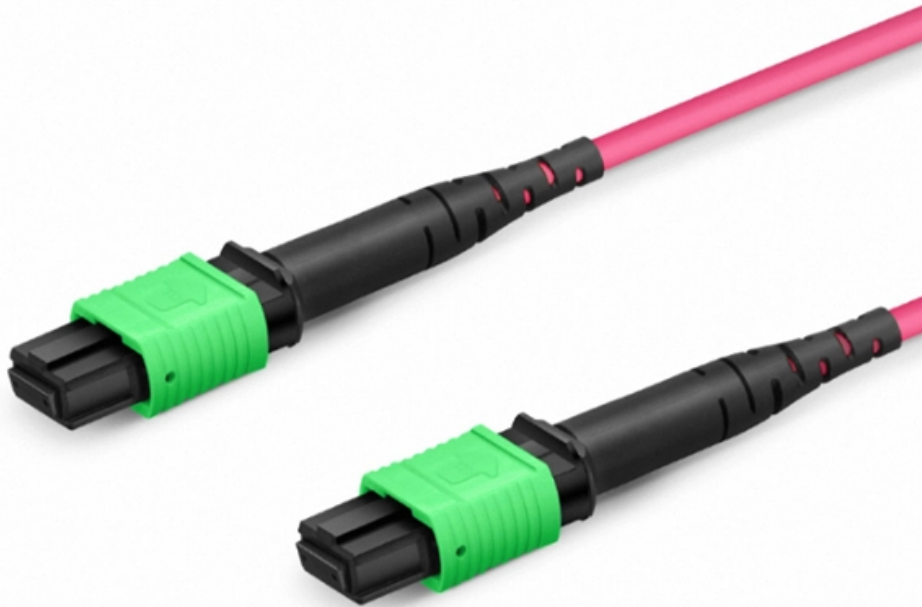


# Huijue Switch Optical Module Overheating





## Overview

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A Huawei S12708 switch experienced excessive fan spinning due to a faulty optical module. If the optical module is installed on a GE port, run the display interface GigabitEthernet x/x/x command to check information about the port, including the rate and wavelength. We summarized the lessons learned and proposed preventative measures to ensure network. Heavy data traffic, poor heat dissipation, high ambient temperature and component aging easily overheat optical transceiver, resulting in signal degradation, higher bit error rates, shorter transmission distance and even module failure. Network outages can bring your ability to communicate and work to a halt, and your IT team will likely be frantically looking for a solution.



## Huijue Switch Optical Module Overheating

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### Understanding Optical Transceiver Operating

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Before sending/receiving data again, the Ethernet switch will suspend transferring data until the transceiver returns to normal operating circumstances.

### FAQs About Optical Modules

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For details about the optical modules supported by optical ports on switches, see "Appearance and Structure" of a specific switch model in the Hardware Description. The following figure shows the



## **Risks of Using Non-Huawei-Certified Switch Optical Modules**

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Some non-Huawei-certified switch optical modules are not designed in compliance with EMC standards and have low anti-interference capability. Additionally, they bring electromagnetic

## **Huawei Switch Fan Issue Linked to Optical Module Failure**

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A Huawei S12708 switch experienced excessive fan spinning due to a faulty optical module. Replacing the module resolved the issue. This incident highlights the importance of

## **Troubleshooting SFP+ Module Link Issues in 10G**

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Use vendor-approved SFP+ Optical Transceivers and keep your switch firmware updated



to ensure compatibility and stable connections. Monitor

## **Optical Transceiver Operating Temperature: A Comprehensive Guide**

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Optical transceivers play a crucial role in modern telecommunications and data networking systems, facilitating the transmission of data over optical fibers. One often-overlooked factor that

## **Troubleshooting for Optical Modules on Huawei Switch**

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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**

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When using switches, we may encounter many confusions, such as what types of optical modules are needed for different models of Huawei switches, and how to resolve issues encountered

## **How Can Fiber Optic Cables Withstand Extreme Heat?**

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Fiber optic cables designed for extreme environments boast robust coatings, hermetic sealing, and chemical-resistant jackets. These features ensure

## **SFP+ Module Temperature High Alarm: Triage & Fix**

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Learn what triggers an SFP+ temperature high alarm, SFF-8472 thresholds, and how to fix transceiver overheating to prevent packet loss in network switches.

## How To Read Optical Module Information On Huawei Switches

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Optical modules are widely used in switches, network interface cards (NICs), routers, and other communication devices. During use, reading optical module information helps understand its real

## Typical Troubleshooting Cases of Optical Module

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If possible, remove and reinstall the optical modules to check whether the fault is rectified. If the fault persists, run the reboot command to restart the switch or power cycle the switch, and check whether



## Optical Transceivers Introduction

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In this article, ETU-Link will explain to you what causes the high temperature of the optical module and how to solve it. Generally speaking, a brand-new optical module will not have any major problems

## Understanding Optical Transceiver Operating

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Optical transceivers are fundamental components in modern telecommunications and networking systems, enabling the transmission of data

## SPF modules overheating & vendor support

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Having had some serious overheating issues with a Mikrotik 10G S+RJ10. From research I find this is not a new issue with lots of comments and a few solutions presented. I



## 10Gbe SFP+ RJ45

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I have 3 different SFP+ modules: Cudy SM10GL 10Gb/s SFP+ RJ45 - without attaching fan above it's overheating beyond 95C of shutdown temp (resulting in constant shutdowns) OPTION SFP 10GBPS

## Optical Interface Interconnection Is Abnormal on CE Switches

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CloudEngine 16800, 12800, 9800, 8800, 7800, 6800, and 5800 Series Switches  
TroubleshootingGuide(V100andV200)OpticalInterfaceInterconnectionIsAbnormalon  
CE



## Typical Troubleshooting Cases of Optical Module

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Check whether the information is consistent with the optical module specifications provided in the product documentation. (For details about the commands for querying port information, see the

### SFP module is extremely hot

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My experience with SFP and SFP+ modules (different vendors) in non-Mikrotik equipment is that some SFP types run hot and some run cool. In

### Optical Module Troubleshooting

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Check whether the distance between the two devices exceeds the maximum transmission distance of the optical module. If the distance is within the transmission distance of the remote optical module,



## How much heat do I have to worry about with an SFP+ RJ45

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Depends on a lot of things, but they do run very hot. You could point a fan at them if you're worried about it, but I have never seen a switch capable of running SFP+ units have issues with the heat.

## Understanding Huawei OLT ONT Optical Module Temperature

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In modern fiber-optic networks, temperature management remains one of the most overlooked yet critical factors affecting optical line terminal (OLT) performance. Huawei's ONT (Optical Network



## **What Happens When an Optical Transceiver Runs Too Hot**

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High operating temperatures damage optical transceivers, causing signal loss, shorter lifespan, and failures. Learn causes, risks and practical fixes.

## **Troubleshooting and Repairing Optical Transceiver Failures in**

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Have you ever experienced an unexpected network outage due to the failure of an SFP/SFP+ optical transceiver?

## **What are the Impacts When an Optical Transceiver Runs too Hot or**

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This can cause the transceiver module's optical path to become defocused or misaligned, preventing optical components from functioning as intended. This issue is especially severe for

## **How to Solve the Problem of Abnormal Temperature in Optical**

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At this time, the optical transceiver module should be replaced, and the indicator light of the port alarm status should be observed again after 5 minutes. If the red light of the port is off, it indicates that the

## **Optical Module Solutions for Huawei S5700/S5720 Series Switches**

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This article summarizes several solutions for using optical modules with switches and common problems encountered during usage, along with specific solutions.



## Contact Us

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For datasheets, pricing, or custom optical networking solutions, please visit:  
<https://www.entrenamientointeligente.es>