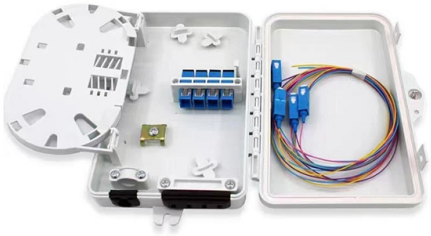
Huijue Optical Module Parameter Modification



Overview

Modifying The Optical Port Speed Of Huijue SwitchIf the optical module is faulty, replace it. If the fault is caused by incorrect configuration or networki.

Key Takeaways

Huijue optical module parameters such as transmit power, receive power, temperature, voltage, and bias current can be modified and monitored to ensure optimal performance and network stability.Key Parameters

Huijue optical modules, like other PON optical transceivers, have five core parameters that determine normal operation: transmitting optical power, receiving optical power, temperature, power-supply voltage, and bias current. Abnormal values in any of these parameters can lead to ONU registration issues or packet loss on the network ( ).

• Transmitting Optical Power: Controls the intensity of light emitted by the module. It can be adjusted to optimize signal strength for the ONU port.

• Receiving Optical Power: Indicates the optical power received by the module. It is critical to ensure the signal is within the receiver sensitivity range to avoid bit errors ( ).

• Temperature: Monitored to prevent overheating, which can degrade module performance.

• Power-Supply Voltage: Ensures the module receives stable voltage; deviations can trigger alarms.

• Bias Current: Controls the laser diode current; improper settings can affect optical output and module lifespan.
Parameter Modification and Alarm Configuration

Huijue modules allow modification of these parameters and setting of alarm thresholds to maintain safe operation ( ):

• Enable Alarms: Each parameter can have maximum and minimum alarm thresholds configured. For example, the transmitting optical power alarm can be enabled on a specific port, with defined upper and lower limits.

• Set Thresholds: Use commands to define alarm-value (trigger threshold) and clear-value (threshold to clear the alarm).

• Exit Configuration: After adjustments, exit port mode and configuration mode to apply changes. Example commands for PON port configuration include enabling voltage or current alarms and setting their respective thresholds. These adjustments help prevent module damage and maintain network reliability.
Best Practices
• Avoid exceeding overload optical power to prevent photodetector saturation and bit errors ( ).

• Monitor receiver sensitivity to ensure received signals are within operational limits.

• Adjust transmit power carefully to balance signal strength and avoid interference with other ONUs.

• Regularly check temperature and voltage to prevent module degradation. By carefully modifying these parameters and configuring alarms, Huijue optical modules can maintain optimal performance and extend operational lifespan while ensuring stable PON network operation.

Article Content

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The upper limit of this parameter is the overload optical power and the lower limit is the maximum receiver sensitivity. When two

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Enabling the optical port of the Huijue switch

Following these steps will safely open and activate the optical port on your Huawei switch, ensuring reliable optical connectivity.

Fiber optic module connected to Huijue switch

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Configure Optical Modules Energy Storage Cabinet, energy storage system, New Energy Optical Module Solutions for Huawei

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If you know the model or type of an optical module, you can view the section "Pluggable Modules for Interfaces" in the Hardware

Huijue checks the light and sound received by the optical module

In this article, we will focus on teaching you how to troubleshoot and solve the common three categories of optical module failure.

Huijue Wu | ScienceDirect

Electrical transients enabled by an optical excitation and an electric detection provide a distinctive opportunity to study charge

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