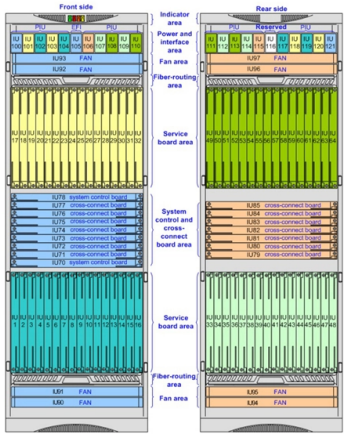
E8000E Checking the Optical Module



Overview

E8000E Checking the Optical Module See the interface module via the optical display command information, including general information of the optical modul.

Key Takeaways

To check an optical module on the Huawei E8000E, verify module compatibility, inspect parameters like transmit/receive power, and use display commands to monitor status and alarms.Step 1: Verify Module Compatibility

Ensure the optical module is supported by the E8000E interface. The module must match the interface specifications in terms of rate, wavelength, and transmission distance. Using modules from the same manufacturer is recommended to avoid incompatibility issues. Non-Huawei-certified modules may cause abnormal data bus behavior, incorrect alarms, or even damage to interface components .

Step 2: Inspect Optical Module Parameters

Check the following key parameters:

• Transmit (Tx) and Receive (Rx) Power: Ensure the optical power is within the module's specified thresholds. If Tx or Rx power is too high or too low, replace the module or the fiber on the peer device .

• Wavelength and Transmission Distance: Confirm that the module's wavelength and supported distance meet the link requirements.

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• Temperature, Voltage, and Current: Monitor the module's operating conditions to detect potential faults .
Step 3: Use Display Commands

Run the following command to view detailed information about the optical module:

display transceiver interface

This command provides:

• Conventional and manufacturing information

• Alarm and fault status

• Optical power readings

• Module type and certification status
Step 4: Troubleshoot Issues
• If the transmit optical power is abnormal, replace the optical module.

• If the receive optical power is abnormal, check the peer module or fiber and retest.

• Use an optical power meter to measure attenuation along the fiber link and identify faulty segments .

• Clean the fiber end faces before reinserting them, ensuring no optical signals are present during cleaning .
Step 5: Maintain Proper Installation
• Reserve sufficient space in cabinets to prevent patch cords from bumping doors.

• Avoid using OTDR testing on fibers connected to active modules, as high transmit power can damage the module . By following these steps, you can ensure the optical module on the Huawei E8000E is functioning correctly, compatible with the interface, and operating within safe parameters.

Article Content

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Check the LINK indicator on the optical interface. If the indicator is green, the links connected to the interface are Up.

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Check whether the optical module and optical fiber match. A single-mode optical module (typically with a center wavelength of 1310

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