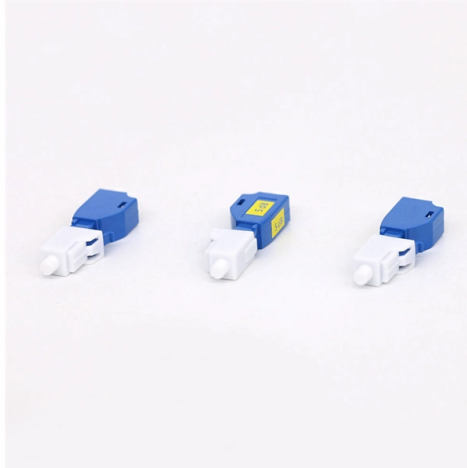


OLT to view optical module information



Overview

Defining OLT: Optical Line Terminal Definition under: Definitions What is a Optical Line Terminal (OLT)?

Key Takeaways

You can view OLT optical module information using CLI commands to check module type, wavelength, transmission distance, and real-time diagnostics, or via OLT dashboards for monitoring system health and optical parameters. Using CLI Commands on Huawei OLTs

To check an optical module on a Huawei OLT or switch interface:

- **Basic Interface Status** Run the command: `display interface` This shows interface rate, module type, link status (UP indicates normal operation), and traffic statistics, which are useful for troubleshooting .
- **Detailed Optical Module Information** Use: `display transceiver interface verbose` This command provides two main sections:
 - **Module Identification:** Type, operating wavelength, transmission distance, serial number, manufacturer, and connector type.
 - **Digital Diagnostic Monitoring (DDM):** Real-time parameters such as receive/transmit power, temperature, voltage, and bias current, along with threshold ranges .

- Diagnostic Check For troubleshooting, run: display transceiver diagnosis interface
This displays DDM information and helps identify faults or abnormal optical power levels .

Using OLT Dashboards

For GPON or XGS-PON OLTs, dashboards provide a graphical view of optical module status:

- System Health: CPU and memory utilization at the OLT level.
- Traffic Monitoring: Uplink and PON port traffic utilization.
- Optical Monitoring: Environmental health metrics, including optical power and module degradation indicators.
- Dashboards allow early detection of optical module issues and help maintain network performance .

Best Practices

- Ensure the module is vendor-certified to avoid compatibility issues.
- Regularly monitor receive and transmit power, temperature, and voltage to prevent service degradation.
- Use both CLI and dashboard tools for comprehensive monitoring, especially in large PON deployments . By combining CLI commands and dashboard monitoring, you can effectively view and manage OLT optical module information, ensuring optimal network performance and early detection of potential faults.

Article Content

Displaying Optical Module Information

You can run the display transceiver interface interface-type interface-number command to view information about a specified optical

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View the Optical Module Status on a Switch through the

The Cisco Small Business Series Switches allow you to plug in a Small Form-factor Pluggable (SFP) transceiver in their optical

GPON Optical Line Terminal (OLT) dashboards

A GPON system consists of an optical line terminal (OLT) that connects several optical network terminals (ONTs) together by using a

OLT Types: Comprehensive Guide to Optical Line Terminal Solutions

OLT types are designed with future scalability in mind, incorporating features that support network growth and technology evolution.

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

