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Server optical module indicator lights



Overview

System-level status indicators (LEDs) are located on both the server front panel and the back panel.

Key Takeaways

Server optical module LEDs indicate link status, activity, speed, and faults, with colors and blinking patterns providing diagnostic information.LED Colors and Meanings
• Off: No link is present or the module is inactive .

• Green, steady: The optical module is active and the link is established .

• Green, blinking: Traffic is present on the active link, indicating data transmission .

• Amber, steady: The link is operating at less than maximum speed (e.g., 100 Mbps or 1 Gbps) or a component is in a degraded state .

• Amber, blinking: A critical fault is detected, such as a failed module, over-temperature condition, or other non-recoverable errors .
Diagnostic Information

Many servers and network devices allow you to view detailed optical module diagnostics using commands. For example, on Huawei devices, you can run:

• display transceiver [interface interface-type interface-number | slot slot-id] to view module information.

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• display transceiver diagnosis interface [interface-type interface-number] to check digital diagnostic monitoring (DMM) data, including optical power, voltage, current, and temperature . These diagnostics help identify issues such as low or high optical power, faulty modules, or non-certified modules that may cause data bus errors or physical damage to the interface .
Practical Tips
• Ensure the optical module is certified for your device to avoid compatibility and performance issues .

• Check the LED patterns regularly to monitor link activity and detect faults early.

• Use the server or switch management interface to correlate LED status with module diagnostics for precise troubleshooting.

• Replace modules showing amber blinking or abnormal readings to prevent network disruptions . By understanding the LED indicators and using diagnostic commands, you can maintain optimal performance and quickly identify issues with server optical modules.

Article Content

System-Level Status Indicators

System-level status indicators (LEDs) are located on both the server front panel and the back panel. For the location of the status

Automation Server LEDs

The Automation Server Ethernet and Status indicators comprise two LEDs (green/yellow and green/red respectively) in one

Server Status Indicator LEDs

These sections describe Exadata Server X10M status indicators (LEDs) located on the front and back panels, including indicators

SuperServer SYS-822GA-NGR3: LED Indicators

For information about LED indicators on the SYS-822GA-NGR3 server, refer to the following content.

Dell EMC PowerEdge Servers Troubleshooting Guide

Provides an overview of diagnostic indicators and describes how to use the indicator codes to facilitate troubleshooting. Lists Dell

Drive Tray Light-Emitting Diode (LED) Identification

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Hard drive LED states can be found on the Technical Specifications for each board. The below is a snapshot taken

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Status LEDs

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System Module (SMOD) Indicators

The back panel indicators located on the SMOD allow you manage the server and determine server status. The SMOD back panel

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What optical modules are usually equipped on network servers?

SFP optical module is a hot swappable optical module used for 1Gbps network connections. It has a small size and can be plugged

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How To Choose Optical Modules For Servers

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Master Device Status LEDs: Boost Network Power (Updated 2025)

Network device status LEDs explained: Cisco switch Mode button behavior, port LED meanings, fiber/SFP

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Status Indicator LEDs

External Status Indicator LEDs See the following figures and tables for information about the LEDs that are viewable on the outside

Network Switch Port LED and Status LED Guidelines

Network Switch Port LED and Status LED Guidelines Data centers today have a large number of network switches manufactured by

Server Status Lights & Error Codes: Dell & HPE Diagnostics and the

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Oracle Exadata Storage Server X9-2 EF, HC, and XT Service Manual Server System-Level Status Indicators There are seven

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Explore the working principles, structures, and performance metrics of optical modules, essential components of

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Learn how to set up a multi-device status light system for your business to monitor equipment, improve efficiency, and prevent

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Oracle Server X9-2 Service Manual

This section includes information about troubleshooting hardware component faults for Oracle Server X9-2. It contains the following

Understanding Dell Server Power Supply LED Indicators: A Guide for

In the realm of server management and maintenance, one aspect often overlooked is the significance of indicator

HPE Integrated Lights-Out

HPE Integrated Lights-Out Integrated Lights-Out (iLO) is a proprietary embedded server management technology by Hewlett

Modem & Router Lights Explained | BroadbandSearch

Breaking down modem and router light indicators: their purpose, common troubleshooting scenarios, and boosting

What is an SFP Module? An Ultimate Guide | SFP Transceivers

What is an SFP Module? Small Form-factor Pluggable (SFP) module is a compact, hot-swappable transceiver used

Status Indicator LEDs

This appendix contains information about the locations and behaviors of the status and fault LEDs on the server. The information is

Why Your Modem and Router Lights Are Blinking

Learn what all those lights on your modem and router actually mean and how you can use them.

Diagnosing the status LEDs

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The most commonly used controls and indicators on the front of the server appear in the following illustrations. Tower

Troubleshooting Using the Server Front and Rear Panel Status Indicators ...

STBY PWRGD Status Indicator - This green status indicator (LED) is labeled STBY PWRGD and is located on the rear of the server

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