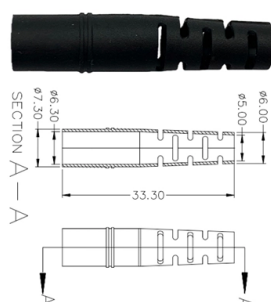


The optical module remains powered on even after being removed



Overview

Case Study: A Device Starts Only After the Optical Module Is The device must have Huawei certified optical modules installed. Non-Huawei certified optical.

Key Takeaways

An optical module may remain powered after removal due to device design, non-certified module use, or residual alarm states, and it does not always indicate a hardware fault.

Possible Causes

1. Non-Certified Modules: Some devices, such as Huawei switches, require certified optical modules. Using non-certified modules can cause unexpected behavior, including the device only starting or recognizing the module after removal, or the module remaining powered due to internal compatibility checks . Non-certified modules may not properly communicate with the device's power management system, leading to residual power output.
2. Alarm and DOM States: Optical modules often include Digital Optical Monitoring (DOM) features that track voltage, bias current, and temperature. Even after physical removal, the device may retain the last known state in its alarm system. This can make it appear as if the module is still powered, especially if the interface was previously active . Clearing the alarm using device-specific commands (e.g., clear alarm active sequence-number) can resolve this display issue .

3. Device Power Design: Some network devices maintain a small standby voltage on SFP ports to detect module insertion or to support hot-swapping. This design ensures the device can recognize a module immediately upon insertion, which may result in the module appearing powered even when physically removed .

Recommended Actions

- **Verify Module Certification:** Ensure the optical module is certified for the specific device model to prevent compatibility issues .
- **Clear Alarms:** Use the device's alarm management commands to clear residual alarms and confirm the module is no longer active in the system .
- **Check Interface Usage:** If the interface is not in use, the powered state may be harmless and can be ignored. If the interface is active, reinstall a certified module to restore normal operation .
- **Inspect Hardware:** For persistent power or abnormal readings, inspect the SFP port and module for physical damage or signs of end-of-life, as high bias current or voltage outside recommended ranges may indicate hardware issues .

Key Takeaway

A module remaining powered after removal is often related to device design, certification, or alarm states rather than a direct hardware fault. Ensuring module compatibility, clearing alarms, and following proper handling procedures typically resolves the issue and maintains network stability.

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