Installing the QSFP-DD optical module DML

Overview

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Key Takeaways

QSFP-DD optical modules with DML can be safely installed by following ESD precautions, aligning the module with the port, and securing it using the pull or bail latch mechanism.Preparation and Safety
• Electrostatic Discharge (ESD) Protection: Always wear an ESD wrist strap connected to a grounded point to prevent damage to the module from static electricity .

• Laser Safety: Handle the module carefully and avoid looking directly into the optical ports, as DML modules emit laser light .

• Clean Environment: Ensure the workspace is free of dust and debris. Keep dust plugs on the module and fiber connectors until installation .
Installation Steps
• Remove the Module from Packaging: Take the QSFP-DD module out of its anti-static bag and remove any protective caps from the optical ports .

• Align the Module: Hold the module by its sides and align it with the port on the switch or router. QSFP-DD modules have orientation keys to prevent incorrect insertion .

• Insert the Module: Gently push the module into the port until it is fully seated. Do not force it; if resistance is felt, check alignment .

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• Secure the Module: Depending on the design, use the pull latch or bail latch to lock the module in place. The latch ensures the module does not disengage during operation .

• Connect Fiber Optic Cables: Insert the fiber connectors into the module's optical bores. Ensure proper orientation and avoid bending the fiber sharply .
Post-Installation Verification
• Check Device Recognition: Most devices automatically detect the QSFP-DD module. Verify that the module is recognized and operational via the device's management interface .

• Monitor Optical Parameters: For DML modules, monitor transmitted power, received power, and error rates to ensure proper operation .

• Firmware and Configuration: If required, update the module firmware and configure optical parameters using the device's software controllers .
Removal Procedure
• Disconnect Fiber Cables: Remove the fiber connectors carefully and replace dust plugs.

• Release the Latch: Open the pull or bail latch to unlock the module.

• Remove the Module: Gently pull the module straight out of the port. QSFP-DD modules are hot-swappable, so the device does not need to be powered down .
Following these steps ensures safe installation and reliable operation of QSFP-DD DML optical modules in high-speed networking environments. Proper handling and monitoring are essential to maintain module longevity and network performance.

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This Application Specification covers the removal, insertion, and routing of QSFP-DD cable assembly modules from cages.

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