

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 .

- **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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QSFP-DD (Quad Small Form Factor Pluggable-Double Density) is a new modular connector system that utilizes a

Cisco QSFP28 100G ZR Digital Coherent Optics Module

The module is compatible with widely deployed ports of QSFP28 100G and 100GBASE ER CAUI-4 client interfaces. Its maximum

Cisco QSFP-DD Pluggable Open Line System (QDD OLS) Data Sheet

Learn more about the Cisco QSFP-DD Open Line System (QDD OLS), a pluggable optical amplifier module that

QSFP28 Transceiver: Complete 100G Connectivity

Below, you will find comprehensive module comparisons, realistic market pricing, and

400G ZR, DR4, FR4, LR4, SR8 QSFP-DD Optical Transceiver

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200G QSFP-DD PSM8 DML 1310nm 2km/10km Optical Transceiver

GIGALIGHT 200G QSFP-DD PSM8 optical transceiver modules are used for medium to long distance interconnections in data

Application Specification

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

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Ultimate Guide to QSFP-DD 400G Optical Modules: Everything

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