

Hot-swapping Huawei optical modules



Summary of Content

All Huawei optical modules are hot-swappable, allowing safe insertion and removal without powering down the host device.

Hot-Swappable Feature

Huawei optical modules—including SFP, eSFP, SFP+, XFP, QSFP+, QSFP28, and CFP modules—are designed to be hot-swappable, meaning they can be inserted into or removed from powered switches, routers, or other network devices without requiring a system reboot or shutdown (Huawei datasheets) . This feature ensures minimal network downtime and simplifies maintenance and upgrades.

Types of Huawei Hot-Swappable Modules

- SFP (Small Form-Factor Pluggable): Supports LC fiber connectors and low-speed data rates.
- eSFP (Enhanced SFP): Adds monitoring capabilities for voltage, temperature, bias current, and optical power while remaining hot-swappable.
- SFP+: Higher-speed SFP variant supporting up to 10 Gbit/s.
- XFP: 10 Gbit/s modules with LC connectors, larger than SFP+.
- QSFP+ and QSFP28: Quad small form-factor modules supporting 40 Gbit/s and 100 Gbit/s, respectively, using MPO or LC connectors.
- CFP: Centum form-factor pluggable modules for high-speed data communication (Huawei datasheets) .

Technical Considerations

Article Content

Optical Module Encapsulation Types

Enhanced small form-factor pluggable (eSFP) modules are hot-swappable, low-speed optical modules with the monitoring function.

Hot-Swapping SFP Modules: Understanding Compatibility

Learn about the hot-swapping capability of SFP (Small Form-Factor Pluggable) modules, allowing seamless replacement or

Understanding Pluggable Optical Modules

A QSFP-DD optical module is a high-speed pluggable optical module defined by QSFP-DD MSA.CXP: hot-pluggable high-density

Understanding Pluggable Optical Modules

A CXP optical module is a hot-pluggable high-density parallel optical module, which provides 12 channels of traffic in each of the Tx

Solved: 4500x switches hot swappable

Solved: Hi, I have two 4500x running VSS. It has two 8x10G fiber optic modules installed. I want to install one more

Replacing an Optical Module

Optical modules are hot swappable, and you do not need to power off the device when replacing optical modules. Optical modules

Types of Optical Modules

Therefore, when using such optical modules, select optical fibers of an appropriate length to ensure that the actual receive power is

Installing optical module tutorial for HUAWEI | Fiberland

Installation module tutorial of HUAWEI S5700-24TP-SI (AC) switch To avoid component damage caused by improper

Installing an Optical Module

Installing an Optical Module Context This section describes how to install an optical module. The method used to install a copper

Which modules can you replace with S7-1500 running?

Hot swapping is the term used for replacing modules when the system is running.

Hot-swapping Huawei optical modules

Learn how to verify Huawei CloudEngine transceiver compatibility, compare module options, avoid common failures, and choose the

Types of Optical Modules

Huawei S series devices support optical modules of the following encapsulation types: CFP, QSFP+, QSFP28, XFP, SFP, eSFP,

Hot-swapping Huawei optical modules

Optical Module Working Principle | SFP Transceiver Technical Guide Broad Compatibility: Our modules comply with SFF-8472 and

Cautionary Notes for Hot-Swapping of Optical Transceivers

Practically, swapping a transceiver during a traffic spike increases the chance of packet loss or a brief link flap. The

What Is Hot Swapping? How Do I Perform Hot Swapping?

Hot swapping is also called power-on reseating or hot replacement. It refers to inserting or removing components

Understanding Hot Swap: Example of Hot-Swap Circuit Design

This process is known as hot swapping, or in some cases hot plugging (where the module interacts with the system software). To hot

How to replace or hot swap modules in a Catalyst 6500 series switch

Solution The online insertion and removal (OIR) feature supported on the Catalyst 6500 series switches allows you to

Are SFP Modules Hot-Swappable? Safe SFP Hot Swapping Guide

Are SFP modules hot-swappable? Learn how SFP hot swapping works, when it is safe, risks engineers discuss on

Things to Know About “Hot-swappable” Optical Transceivers

Before adding the “hot-swappable” function to optical transceiver modules, several problems must be solved to ensure

Maintaining a Device

Properly save the items that do not need repair (such as the optical modules and cables for the faulty component). Unless otherwise

Understanding Hot Swap: Example of Hot-Swap Circuit

To hot swap safely, connectors with staggered pins are often used to ensure that grounds and local power

Replacing an Optical Module

The device must use optical modules recommended on the configurator because non-Huawei-certified optical modules cannot

Replacing an Optical Module

When replacing an optical module, you do not need to swap boards. When removing or inserting optical cables, be careful not to

Cautionary Notes for Hot-Swapping of Optical Transceivers

Why Hot Swapping Can Go Wrong Fast Optical transceivers contain laser diodes that operate at very low power

Everything You Should Know About Hot Pluggable Transceivers

Precautions During the Hot-swap Process Normative In the process of operating hot-swappable optical transceiver

Understanding the Hot-Pluggable Feature of Optical Modules

The hot-pluggable feature of optical transceivers allows for rapid replacement, upgrade, or reconfiguration without

Replacing an Optical Module

Huawei-certified optical modules are strongly recommended because non-Huawei-certified optical modules cannot ensure

Optical Module Solutions for Huawei S5700/S5720 Series Switches

This article summarizes several solutions for using optical modules with switches and common problems encountered

Contact Us

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