ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Huawei 10 Gigabit Optical Module Identification



Overview

10 Gbit/s SFP+ Optical Modules 10 Gbit/s SFP+ optical modules apply to 10 GE optical ports. The wavelength can be 850 nm, 1310 nm, or 1550 nm, and the 10GE.

Key Takeaways

Huawei 10 Gigabit optical modules can be identified by their type, certification label, and switch-reported vendor information.Types of 10GE Optical Modules

Huawei 10GE modules include SFP+ and XFP types. SFP+ modules are small form-factor pluggable modules supporting 10 Gbit/s transmission, while XFP modules are slightly larger and also support 10 Gbit/s with LC fiber connectors . Modules can be single-mode (SM) or multimode (MM), and some are single-fiber bidirectional (BIDI), which must be used in complementary pairs (e.g., SFP-10G-BXD1 with SFP-10G-BXU1), .

Certification and Identification

Huawei requires that switches use certified optical modules to ensure reliability. Modules delivered after July 1, 2013 for 10GE or lower speeds are certified if the label contains "HUAWEI", the Manufactured date is later than 2013-07-01, the display version is V200R001C00 or later, and the Vendor Name in the display transceiver command shows HUAWEI . Non-certified modules may display the original manufacturer name and can affect service stability.

Reading Module Information on Huawei Switches

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To identify a module and check its status, use the following commands on a Huawei switch :

• display interface : Shows interface rate, module type, link status, and traffic statistics.

• display transceiver: Displays detailed module information including Vendor Name, wavelength, and optical power.

• display elabel: Confirms certification and manufacturing date. For example, a certified 10GE SFP+ module connected to a switch will show Vendor Name: HUAWEI, and the module type (e.g., SFP-10G-LR) along with operational parameters like transmit and receive power.
Special Considerations
• BIDI modules must be paired correctly to function.

• Single-mode modules cannot use multimode fiber and vice versa.

• Modules connected via high-speed or AOC cables may display the original manufacturer name; certification verification requires contacting Huawei support . By checking the physical label, switch-reported vendor information, and module type, you can accurately identify and verify Huawei 10 Gigabit optical modules.

Article Content

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Checking the Optical Module

Check whether the transmission distance and fiber type of the optical module meet the requirements. Use an optical power meter to

Optical Interface FAQ: Transceiver Compatibility Guidelines for

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Huawei OptiXstar EG8010Hv6-10

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

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Huawei''s technical support page detailing different types of optical modules and their specifications.

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This document describes hardware components of the S9700, including the cabinet, chassis, power supply facilities,

Huawei Optical Module Common Models

Optical modules are important devices in fiber optic communication systems. Huawei Optical Module is manufactured by Huawei

Displaying Optical Module Information

Displaying Optical Module Information You can use the display commands to view information about the optical module on an

HUAWEI Transceiver

HUAWEI Transceiver Optical transmitter and receiver products of Gearlink optical transceiver manufacturer are trusted by customers

SFP-10G-LR, Huawei SFP+ Optical Transceiver, 10G, 1310nm, 10km

Huawei SFP-10G-LR Overview Huawei SFP-10G-LR is a carrier-grade SFP+ optical transceiver designed for 10G single-mode links

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How to Use Cisco Command to See SFP Module Details?

An SFP module is a hot-pluggable transceiver converting electrical signals to optical or copper signals, supporting various speeds

2X10GL (2-Port 10GE Optical Ports Interface Card)

The 2X10GL is a high-speed WAN access module that provides two 10GE optical interfaces for high-speed uplink connection. A

Optical/Electrical Modules

Before You Start Before using the optical /electrical module, please understand the risk of using the non-certified optical /electrical

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GE-CWDM eSFP Optical Modules (Used Only in the OADM scenario) GE-DWDM eSFP Optical Modules GE SFP Copper Modules

Types of Optical Modules

Optical modules are encapsulated in different modes to provide different structures. Huawei switches support optical modules of the

How to Identify Huawei-Certified Switch Optical Modules

A switch must use optical or copper modules that have been certified for use on Huawei S switches. Non-certified optical or copper

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If an optical module is installed in a running device, you can run the display transceiver command to view parameters of the optical

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Checking Whether the Optical Fiber and Optical Module Match

Read documents about optical modules. Install an optical module on an interface of the matching type, and then run the display

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Overview & Thematic Scope Deciphering Huawei optical transceiver part numbers is essential for network engineers and

Important Notes About Using Optical Modules Certified for Huawei ...

100GE QSFP28 Optical Modules Important Notes About Using Optical Modules Certified for Huawei Switches How to Identify

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

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To reduce EMI, SFP+ optical modules have more springs than SFP optical modules and the cages for SFP+ modules on a card are

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