

Huawei 10 Gigabit Optical Module Interface



Article Overview

Huawei 10 Gigabit optical modules primarily use SFP+ and XFP interfaces, supporting both single-mode and multimode fibers for high-speed data transmission up to 100 km.

Interface Types and Standards

Huawei 10G optical modules include SFP+, XFP, SFP28, and QSFP+ form factors. SFP+ is the most common for 10GbE connections, supporting data rates of 10.3125 Gbps (10GBASE-LR/LW) over single-mode fiber, and is compatible with Huawei switches, routers, NICs, and media converters (SFF-8431, SFF-8432, IEEE 802.3ae) with digital diagnostic monitoring (DDMI) for real-time monitoring of temperature, optical power, and voltage . XFP modules also support 10 Gbit/s but are physically larger and use LC connectors .

Fiber Types and Transmission Distances

Huawei modules support single-mode (SM) and multimode (MM) fibers. Multimode SFP+ modules with OM3 fiber can reach up to 300 meters, while single-mode modules can achieve distances up to 100 kilometers . For short-range connections under 30 meters, CAT6A cables or 10G AOC active optical cables can be used .

Special Module Types...

Article Content

10GE SFP+ Optical Modules

Cards Cables Pluggable Modules for Interfaces Important Notes About Using Optical Modules Certified for Huawei Switches

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

Huawei SFP-10G-LR 10G SFP+ 1310nm 10km single-mode LC module for enterprise and carrier networks. Check real-time Huawei

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

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01-10 PLUGGABLE MODULES FOR INTERFACES

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

Displaying Optical Module Information

Context When the optical module on an interface is faulty, you can run the display commands to view information about the optical

10GE SFP+ Optical Modules

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

Huawei 10G optical module knowledge

As for whether Huawei's 10G optical module can be connected to a Gigabit optical port, the answer is yes. Huawei's 10G optical

Can Huawei's 10Gbps optical module be connected to a Gigabit

However, the issue of whether Huawei's 10Gbps optical module can be connected to a Gigabit optical port has triggered widespread

01-10 OPTICAL MODULES

Unlike optical modules, copper modules do not perform electrical-optical conversion. When two optical interfaces have copper

10 Gbit/s SFP+ Optical Modules

You can use different levels of 10 Gbit/s SFP+ optical modules only with 10 GE interfaces. The wavelength of these 10 Gbit/s SFP+

Installing Optical Transceivers and Connecting Optical Fibers

If different optical modules are used at the two ends, the communication may fail. Huawei optical modules are recommended. The

Huawei 02318169 SFP+ 10GBASE-SR Multimode Transceiver

Make troubleshooting, maintenance and monitoring in your network easier with the Digital Diagnostics Monitoring

What Is an Optical Module and Its FAQs (V200)

What Is an Optical Module and Its FAQs (V200) Describes what an optical module is and FAQs, including the fundamentals,

10 Gbit/s XFP Optical Module

10 Gbit/s XFP Optical Module You can use different levels of 10 Gbit/s XFP optical modules with OC-192/STM-64

Configuring Attributes for an Optical Interface

Some functions can be configured on an optical interface only after the interface connects to a transmission medium

Huawei Optical Module Common Models

Huawei's main business scope is switching, transmission, wireless and data communication telecommunication products, providing

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

Optical Access

Based on PON technology, passive all-optical network access solutions enable access by any media, tailored to enterprises, ISPs,

Can Huawei's 10Gbps optical module be connected to a Gigabit optical

Therefore, there is no standard answer to the question of whether a 10Gbps optical module can be plugged into a Gigabit optical port

Huawei SFP-GE-LX-SM1310 1GE 1310nm 10km SFP Optical

The Huawei SFP-GE-LX-SM1310 is a carrier-grade optical transceiver designed for Gigabit Ethernet over single-mode fiber.

Types of Optical Modules

Wavelength division multiplexing modules differ from other optical modules in center wavelengths. A common optical module has a

Huawei Technical Support

Discover Huawei's technical specifications and features for 10Gbps SFP optical modules, enhancing connectivity and performance in

100 Gbit/s CFP Optical Modules

You can use 100 Gbit/s CFP optical modules only on 100 GE interfaces. They provide multiple wavelength ranges. The transmission

Types of Optical Modules

Huawei S series devices support optical modules of the following encapsulation types: CFP, CFP2, QSFP+, QSFP28, XFP, SFP,

Optical Modules in General-Purpose Computing Scenarios

Huawei offers a comprehensive portfolio of pluggable StarryLink optical modules for data center networks, with various models

Huawei SFP-10G-LR Compatible

This SFP+ transceiver is programmed to be compatible with a wide range of Huawei network equipment such as 10 Gigabit Ethernet

Huawei AR-2X10GL-W 2x10GE Optical Ports Interface Card

Deploy high-bandwidth 10GE uplinks on Huawei AR series routers with the AR-2X10GL-W 2-port 10GE optical interface card for

Checking Whether the Optical Fiber and Optical Module Match

1550 nm: single-mode optical modules. They are often used for long-distance transmission. GE and 10GE optical modules have the

Types of Optical Modules

This document provides an overall description of the CE16800 series switches hardware, helping you obtain detailed information

Understanding Optical Modules

This document provides an overall description of the CE12800 series switches hardware, helping you obtain detailed information

HUAWEI Transceiver

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

01-10 OPTICAL MODULES

XFP: 10 Gigabit small form-factor pluggable. X is the Roman numeral 10, meaning that all XFP optical modules provide a 10 Gbit/s

1 Gbit/s SFP Optical/Electrical Modules

1 Gbit/s SFP optical/electrical module apply to GE interfaces for interconnection between GE optical and electrical interfaces. SFP

Optical/Electrical Modules

HUAWEI USG6000 Series V100, V500 Hardware Guide Optical/Electrical Modules This chapter describes hardware information for

10GE SFP+ Optical Modules

Single-fiber bidirectional (BIDI) optical modules must be used in pairs. For example, SFP-10G-BXU1 must be used with SFP-10G-BXD1.

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

2X10GL (2-Port 10GE Optical Ports Interface Card) Card Overview The 2X10GL is a high-speed WAN access module that provides

Contact Us

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