

# Huawei 10 Gigabit Optical Module Information



## AI 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 BiDi (Bidirectional) modules transmit and receive on a single fiber and must be used in pairs (e.g., SFP-10G-BXD1 with SFP-10G-BXU1) to function correctly. CWDM and DWDM modules are designed for ultra-long-distance transmission in backbone or metropolitan networks. Compatibility and Rate Considerations 10G modules are generally backward compatible with Gigabit ports if the device allows rate adjustment, but the maximum transmission efficiency is achieved when both ends support 10Gbps. Practical Deployment Huawei 10G optical modules are widely used in data centers, enterprise networks, and cloud computing platforms. For distances beyond 300 meters, single-mode modules are recommended, while multimode modules or AOC cables are suitable for shorter con...

## Article Content

### Huawei SFP-10G-ZR: Long-Range Connectivity Solutions

If the desired length cannot be achieved, you can switch to 10G SFP+ multimode optical modules with OM3 multimode fiber. This connection scheme can achieve a maximum transmission

[huawei-osx010000-brochure-datasheet.pdf](#)

The document is a datasheet for the Huawei OSX010000 10G optical transceiver module. It specifies that the OSX010000 is an SFP+ module that operates at

### 10GE SFP+ Optical Modules

Fan Modules Installing a Power Surge Protector Pluggable Modules for Ports Understanding Optical Modules Understanding Copper Modules Understanding Hybrid Modules Guide to Using Pluggable

### Displaying Optical Module Information

When certifying an optical module, Huawei comprehensively verifies the functions of the optical module to ensure the optical module quality. The functions include the installation and removal, transmit and

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

First, we need to clarify the basic concepts and characteristics of 10Gbps optical modules and Gigabit optical ports. The 10Gbps optical module is a high-speed,

### Huawei SFP Module Price

Find huawei sfp module price and other fiber optic transceivers at our reliable supplier. High-quality, compatible, and affordable solutions for your network.

SFP-10G-LR, Huawei SFP+ Optical Transceiver, 10G,

Huawei SFP-10G-LR is a carrier-grade SFP+ optical transceiver designed for

### Stock SFP28 25G 850NM 100M LC 5G 3G Optical Module

How do you ensure optical module compatibility? Every batch undergoes 100% live testing on Cisco, Huawei, Arista, Juniper, H3C and Dell switches. Custom EEPROM coding ensures digital-level

### 10GE SFP+ Optical Modules

This document describes hardware components of the S9700, including the cabinet, chassis, power supply facilities, fan modules, cards, cables, and pluggable modules for interfaces.

### 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 transmission distance ranges from 0.5 km (0.31 mi) to 80 km (49.71 mi).

### Types of Optical Modules

To reduce EMI, SFP+ optical modules have more springs than SFP optical modules and the cages for SFP+ modules on a card are tighter. XFP: 10 Gigabit small form-factor pluggable.

### 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.

### 10GE SFP+ Optical Modules

This document provides an overall description of the CE12800 series switches hardware, helping you obtain detailed information about each chassis, power module, fan module, card, cable, and

### Huawei Technical Support

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

### 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 two 10GE optical interfaces for high-speed uplink connection. A

### Optical Modules for Huawei S Series Switches

A switch must use optical or copper modules that have been certified for use on Huawei switches. Non-certified optical or copper modules cannot ensure transmission reliability and may affect service

### Types of Optical Modules

Huawei S series devices support optical modules of the following encapsulation types: CFP, CFP2, QSFP+, QSFP28, XFP, SFP, eSFP, and SFP+. All optical modules are hot swappable.

### 10GE-CWDM SFP+ Optical Modules

Installing a Wall Plate 86x86 AP Installing Outdoor APs Power Modules Pluggable Modules for Optical Interfaces Understanding Optical Modules Understanding Copper Modules Understanding Hybrid

### Types of Optical Modules

Wavelength division multiplexing modules differ from other optical modules in center wavelengths. A common optical module has a center wavelength of 850 nm, 1310 nm, or 1550 nm, whereas a

### 10 Gbit/s SFP+ Optical Module

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+ optical modules can be 850 nm, 1310 nm, or

### Huawei SFP-10G-LR Datasheet Overview

Quick Specs ... Product Details Huawei SFP-10G-LR provides these features: x/Rx Wavelength: 1310 nm. / 1310 nm. Media Type: Single-Mode fiber (SMF) Optical Budget: 6 dB Max. Distance: 10 km

### Optical Component Revenue Reaches Nearly \$25B in

BOSTON (January 7, 2026) – AI-driven datacenter and transport builds will push the optical components market revenue to a record high in 2025, with datacom

### OSX010000 SFP+ OSX010000 price and specs

OSX010000 SFP+ is a new generation of 10 Gigabit optical modules. It can meet the applications of Fibre Channel 8.5G and Ethernet 10G in accordance with the

SFP-10G-LR, Huawei SFP+ Optical Transceiver, 10G,

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

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

The Huawei SFP-GE-LX-SM1310 is a carrier-grade optical transceiver designed for Gigabit Ethernet over single-mode fiber. Operating at 1.25Gbps with a 1310 nm

### 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 transmission rate. XFP optical modules support LC fiber connectors.

### Huawei 02310MNW Datasheet

Huawei 02310MNW Datasheet Huawei SFP-10G-USR 10GBase-USR Optical Transceiver, SFP+, 10G, Multi-mode Module (850nm, 0.1km, LC)

## Contact Us

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