

Huawei 10 Gigabit Optical Port to Electrical Port Module

Article Overview

Huawei offers both optical SFP+ and copper SFP+ modules to convert 10 Gigabit signals between optical and electrical interfaces, supporting distances from 10 meters to 10 kilometers depending on the module type.

Optical SFP+ Modules

Huawei optical SFP+ modules, such as SFP-10G-LR and SFP+10GE-LH10-SM1310, are designed for single-mode fiber (SMF) connections and support data rates from 1.25 Gbps up to 10.31 Gbps . Key features include:

- Wavelength: 1310 nm for long-range transmission
- Maximum Distance: Typically up to 10 km, depending on fiber quality and optical budget
- Interface: LC duplex connectors for double fiber or BIDI modules for single-fiber bidirectional links
- Diagnostics: Support for DDM/DOM (Digital Diagnostic Monitoring) to monitor operating conditions
- Temperature Range: Industrial-grade operation from -45°C to +85°C
- Applications: Data center interconnects, enterprise LANs, mobile operator backhaul, and SDH/SONET networks BIDI modules must be used in pairs, e.g., SFP-10G-ER-SM1270-BIDI with SFP-10G-ER-SM1330-BIDI, to ensure proper bidirectional communication

Article Content

Mar 12, 2026

Compatibility Of Huawei SFP-10GBaseT-SR Electrical Port Module

Huawei's SFP-10GBaseT-SR electrical transceiver module supports rates of 100M/1G/2.5G/5G/10Gbps (auto

Oct 07, 2025

10GE Electrical Interface Module (Applicable to 6.1.0 and Later ...

Function A 10GE electrical interface module provides four 10 Gbit/s electrical ports. The electrical module rate must be consistent

Mar 17, 2026

Huawei OptiXstar P871E ONU

Huawei OptiXstar P871E is a panel-type ONU that can be easily installed in 86-type electrical boxes, featuring one GPON port and

Dec 19, 2025

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

Oct 22, 2025

How To Switch Optical/Electrical Mode On Huawei Router Combo Ports

A Combo port, also known as an optical-electrical multiplexing port, consists of one optical port and one electrical port

Mar 09, 2026

Optical Terminal

The OptiXstar product series extends optical connectivity to every home, enterprise, and campus, bringing

Sep 15, 2025

Optical/Electrical Module

You can use different levels of 10 Gbit/s XFP optical modules with OC-192/STM-64 POS interfaces and 10 GE

Sep 15, 2025

10G SFP+ Optical Transceivers | Transceiver Module

FS 10GbE SFP+ module solutions provide a wide variety of 10 Gigabit Ethernet connectivity options for

Feb 20, 2026

Huawei OEGD01N01 1000BASE-T RJ45 SFP Optical

This hot-swappable SFP module features low power consumption, IEEE 802.3ab compliance, and

Nov 19, 2025

Optical to electrical port module photoelectric conversion ...

Outer Material paper Optical to electrical port module photoelectric conversion RJ45 optical fiber module 1.25G optical port to gigabit

Jun 02, 2026

Huawei Original Electrical Port Module SFP-GE-T (Model: 02313GCE)

Huawei offers four models of original electrical port SFP-GE-T modules on its official website. Moduletek Laboratory

Nov 23, 2025

What is the difference between electrical and optical port modules ...

Optical modules are essential components in enterprise networking. According to different rates, encapsulation types

Aug 02, 2025

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

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

Sep 13, 2025

What is an electrical port and what is an optical port? What is ...

What is an electrical port? The electrical port is relative to the optical port, which refers to the physical characteristics

Sep 05, 2025

10 Gigabit Fiber SFP+ Optical Transceiver Module

This 10 Gigabit Fiber SFP+ Optical Transceiver Module supports standard digital diagnostics monitoring (DDM) functions, also

Feb 14, 2026

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

Apr 25, 2026

Huawei Technical Support

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

Sep 24, 2025

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

Feb 10, 2026

10GE SFP+ Optical Modules

Fan Modules Installing a Power Surge Protector Pluggable Modules for Ports Understanding Optical Modules Understanding Copper

Aug 21, 2025

Small Form-factor Pluggable

SFP+ supports 8 Gbit/s Fibre Channel, 10 Gigabit Ethernet and Optical Transport Network standard OTU2.

Apr 18, 2026

Understanding Pluggable Optical Modules

When cleaning the optical port of an optical module, clean the end faces of associated optical fibers to prevent the optical fibers from

Nov 06, 2025

Installing Optical Transceivers and Connecting Optical Fibers

Installing Optical Transceivers and Connecting Optical Fibers This section describes how to install optical transceivers on the SFP or

Sep 15, 2025

SFP-10G/25G-SR

This document provides an overall description of the CE5800& 6800& 8800& 9800 series switches hardware that V200R020C00 and

Mar 13, 2026

10GE SFP+ Optical Modules

If the SFP-10G-ER-1310 is connected to a 10Gbase-ER standard optical module (1550nm, 10GE, 40km), the maximum transmission

Mar 14, 2026

10GE Electrical Interface Module

Function A 10GE electrical interface module provides four 10 Gbit/s electrical ports. The electrical module rate must be consistent

Sep 02, 2025

What Is an Optical Module and Its FAQs (V200)

Describes what an optical module is and FAQs, including the fundamentals, appearance and structure, key performance counters,

Mar 08, 2026

10GBASE-T SFP+ 10 Gigabit Electrical Port Module,

GIGALIGHT 10G SFP+ electrical port module is widely used in 10GBASE-T Ethernet, compatible with

Contact Us

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