

Huawei ESFP Optical Module



AI Overview

Huawei eSFP (enhanced Small Form-factor Pluggable) optical modules are hot-swappable transceivers with monitoring capabilities, designed for reliable Gigabit Ethernet and other optical network applications.

Overview of eSFP Modules

Huawei eSFP modules are an enhanced version of standard SFP optical modules. While both SFP and eSFP modules perform electrical-to-optical signal conversion and support similar transmission rates and distances, eSFP modules include monitoring functions that allow network administrators to track optical power, temperature, voltage, and performance events in real time. This makes eSFP modules particularly useful in environments where network reliability and diagnostics are critical.

Key Features

Form Factor: SFP package, compact and hot-swappable

Data Rates: Typically 1.25 Gbps for Gigabit Ethernet applications

Wavelengths: Commonly 850 nm (multimode) or 1310 nm (single-mode) depending on the module type

Transmission Distance: Ranges from 550 m for multimode modules to 10–80 km for single-mode modules

Connector Type: LC duplex for most SFP/eSFP modules

Monitoring: Supports Digital Optical Monitoring (DOM/DDM) for voltage, temperature, bias current, transmit and receive optical power

Compliance: RoHS, CE, FCC, and SFP MSA standards

Types and Applications

Huawei eSFP modules are available in single-mode and multimode variants, supporting both short-range and long-range optical transmission. Examples include:

- eSFP-FE-LX-SM1310: Single-mode, 1310 nm, 15 km, LC connector
- eSFP-GE-SX-MM850: Multimode, 850 nm, 550 m, LC duplex, Gigabit Ethernet
- S-SFP-FE-LH40-SM1310: Single-mode, 40 km, LC connector

These modules are widely used in data centers, enterprise networks, and telecommunications, providing reliable high-speed connectivity and enabling network monitoring for proactive maintenance.

Compatibility

Huawei eSFP modules are compatible with a range of Huawei switches, including S5700 and S5720 series, and can be used interchangeably...

Article Content

1.25 Gbit/s SFP/eSFP Optical Module

You can use different levels of 1.25 Gbit/s SFP/eSFP optical modules with GE interfaces and 10 GE interfaces. The wavelength of common 1.25 Gbit/s SFP/eSFP optical modules can be 850

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Huawei RRU SFP

Huawei RRU SFP module, optical transmission device, low price around \$7, minimum order of 1 unit. Suitable for wholesale, available in bulk, wireless infrastructure equipment.

Optical Modules for Huawei S Series Switches

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

Huawei SFP Module Price

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Understanding Pluggable Optical Modules

An eSFP module is an SFP module that supports monitoring of voltage, temperature, bias current, transmit optical power, and receive optical power. Because all the SFP optical modules support

Huawei eSFP-GE-SX-MM850 Gigabit Optical Module Overview

The eSFP-GE-SX-MM850 optical module is a Huawei Gigabit multimode optical module with DOM/DDM support, which is packaged in an SFP package with a center wavelength of 850 nm.

Types of Optical Modules

An eSFP module is an SFP module that supports monitoring of voltage, temperature, bias current, transmit optical power, and receive optical power. Because all the SFP optical modules support

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).

Huawei SFP-10G-iLR Optical Transceiver Best price in Dubai

SFP-10G-iLR Overview Optical Transceiver, SFP+, 9.8G, Single-mode Module 1310nm, 1.4km, LC. Basic Information Module name SFP-10G-iLR Part Number 02311BJJ Model SFP-10G-iLR Form factor

01-10 OPTICAL MODULES

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

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And the Huawei eSFP-GE-SX-MM850 Optical Transceiver, eSFP, GE, Multi-mode Module (850nm, 0.55km, LC) is factory new with original packaging. Buy it now

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, common types, and naming conventions of optical modules, causes of

Huawei 40G QSFP Switch Guide: CE6800 & CE12800 Specs

Compare Huawei CloudEngine 40G switches (CE6800, CE12800), QSFP+ module compatibility (SR4/LR4), and deployment guidance for AI-ready Ethernet fabrics.

How To View Optical Transceiver Information On Huawei Switches

Optical modules are commonly used in switches, network cards, routers and other communications equipment, in the process of using the optical module information can be read to

Contact Us

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