

Huawei optical module SFP and ESFP



Article Overview

Huawei SFP modules are standard small form-factor pluggable transceivers, while eSFP modules are enhanced versions with monitoring capabilities for voltage, temperature, and optical performance.

Overview

SFP (Small Form-Factor Pluggable) modules are compact, hot-swappable optical transceivers used for converting electrical signals to optical signals and vice versa. They support various communication standards such as Gigabit Ethernet, Fiber Channel, and SONET, and are compatible with LC fiber connectors. SFP modules are widely used in Huawei switches, routers, and OLT systems for both single-mode and multi-mode fiber applications. eSFP (Enhanced SFP) modules have the same physical form factor and basic functionality as SFP modules but include enhanced monitoring features. These features allow network administrators to monitor module voltage, temperature, bias current, transmit optical power, and receive optical power, which helps in proactive network management and troubleshooting.

Key Features and Differences

Feature	SFP	eSFP
Form Factor	Small, hot-swappable	Same as SFP
Monitoring	No	Yes (voltage, temperature, optical power)
Transmission Rate	125 Mbit/s to 5 Gbit/s (unidirectional)	Same as SFP
Fiber Type	Single-mode or multi-mode	Same as SFP
Distance	Varies by model (up to 80 km for single-mode)	Same as SFP
Compatibility	Can substitute for eSFP if optical specs match	Can substitute for SFP if optical specs match

Article Content

Huawei Optical Modules and Cables

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Optical Transmission Basics 01

Optical Module Optical Performance Optical Communication Technologies Optical Components Optical Power Management Ultra

1Gbps eSFP Optical Modules

This document provides technical details about 1Gbps eSFP Optical Modules, including specifications and support information.

1.25 Gbit/s SFP/eSFP Optical Module

1.25 Gbit/s SFP/eSFP Optical Module You can use different levels of 1.25 Gbit/s SFP/eSFP optical modules with GE

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Huawei SFP-10G-ZR 10G 1550nm 80km SFP+ Optical Transceiver Module

Huawei SFP-10G-ZR Overview The Huawei SFP-10G-ZR is a carrier-grade SFP+ optical transceiver designed for long-haul 10G

Understanding Pluggable Optical Modules

An eSFP optical module is an SFP optical module that supports monitoring of voltage, temperature, bias current, transmit optical

Optical Module Encapsulation Types

The eSFP and SFP optical modules have the same functions and services. They can substitute for each other as long as they have

Huawei Huawei Sfp Modules Price And Datasheet

You can also freely download the PDF data sheets for all Huawei Huawei SFP Modules products.

SFP-GE-LX-SM1310 (02315200)

This document provides specifications and details about the SFP-GE-LX-SM1310 optical module for Huawei devices.

Types of Optical Modules

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

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,

FE SFP/eSFP Optical Modules

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

GE eSFP Optical Modules

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

10GE SFP+ Optical Modules

FE SFP/eSFP Optical Modules GE eSFP Optical Modules GE-CWDM eSFP Optical Modules GE SFP Copper Modules SFP Stack

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02315200

It won't have any compatibility problem with your Huawei devices. And the Huawei SFP-GE-LX-SM1310

Types of Optical Modules

An eSFP module is an SFP module that supports monitoring of voltage, temperature, bias current, transmit optical power, and

8 Pluggable Modules for Interfaces

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

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+.

eSFP-GE-SX-MM850, Huawei eSFP Optical Transceiver, GE, 850nm

Huawei ESFP-GE-SX-MM850 eSFP 1GE 850nm multi-mode 0.5km LC optical transceiver for Huawei switches and routers. Check

Types of Optical Modules

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

Classification and Specifications of HUAWEI Transceivers

An eSFP module is an SFP module that supports monitoring of voltage, temperature, bias current, transmit optical power, and

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Looking for a powerful SFP module that can monitor, transmit, and receive optical power efficiently? The

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

Huawei SFP-GE-LX-SM1310 1GE 1310nm 10km single-mode SFP module for Huawei switches and routers. Check real-time price,

1.25 Gbit/s SFP/eSFP Optical Modules

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

01-10 OPTICAL MODULES

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

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