# FE-SFP Optical Module



## Overview

FE SFP/eSFP Optical Modules FE SFP/eSFP Optical Modules S-SFP-FE-LH40-SM1310 S-SFP-FE-LH80-SM1550 SFP-FE-LX-SM1310-BIDI SFP-FE-LX-SM1550-BIDI SFP-FE-SX-MM1.

## Key Takeaways

FE-SFP modules are hot-pluggable transceivers that enable Fast Ethernet (100 Mbps) connectivity over fiber or copper, supporting flexible deployment in switches, routers, and industrial networks.

### Overview

An FE-SFP (Fast Ethernet Small Form-factor Pluggable) is a compact, hot-swappable transceiver module that converts electrical signals from a host device into optical signals for fiber networks or electrical signals for copper cabling. These modules allow network devices to support different media types without replacing the hardware, enhancing flexibility and port density while simplifying maintenance. Types and StandardsFE-SFP modules are designed according to the IEEE 100BASE-FX standard for fiber connections.

They come in two main types: Multimode Fiber (MMF) Modules: Typically operate at 1310 nm wavelength with link spans up to 2 km. Example: Cisco GLC-FE-100FX or Huawei SFP-FE-SX-MM1310. Single-mode Fiber (SMF) Modules: Operate at 1310 nm or 1550 nm, supporting longer distances from 15 km up to 80 km depending on the model.

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Example: Huawei eSFP-FE-LX-SM1310 or S-SFP-FE-LH80-SM1550. FE-SFP modules use LC connectors and are interoperable with other SFPs compliant with the same standard, allowing flexible deployment across different vendors' equipment. Key FeaturesHot-swappable: Can be inserted or removed without rebooting the host device.

Interchangeable: Compatible with other 100BASE-X SFPs on the same line card. Digital Diagnostic Monitoring (DDM/DOM): Many modules provide real-time monitoring of temperature, voltage, and optical power. Industrial variants: Some modules, like Cisco GLC-FE-100FX-RGD, are designed for industrial or SmartGrid switches, offering extended temperature ranges and ruggedized performance.

ApplicationsFE-SFP modules are widely used in: Enterprise and data center switches and routers for fiber uplinks. Industrial Ethernet networks requiring reliable fiber connections over longer distances. Telecommunication networks where modularity and flexibility are critical.

### Vendor Examples

Cisco: GLC-FE-100FX, GLC-GE-100FX, GLC-FE-100FX-RGD for industrial applications. Huawei: SFP-FE-SX-MM1310 (2 km MMF), eSFP-FE-LX-SM1310 (15 km SMF), S-SFP-FE-LH80-SM1550 (80 km SMF) with LC connectors. FE-SFP modules provide a standardized, flexible, and reliable solution for deploying Fast Ethernet over fiber, supporting both short-range multimode and long-range single-mode applications while maintaining interoperability across multiple vendors.

## Article Content

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Huawei FE Optical Modules

Huawei S-SFP-FE-LH40-SM1310 Optical Transceiver, eSFP, 100M/155M, Single-mode Module (1310nm, 40km, LC) 02317344

Cisco Fast Ethernet SFP Modules

The Cisco® 100BASE-X Small Form-Factor Pluggable (SFP) device is a hot-swappable input/output device that plugs into Fast Ethernet ports, dual

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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.

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.

Optic Modules Datasheet

datasheet is intended to guide the user through the various options available when choosing an optic module for a given platform depending on the architecture. The following table lists the different

Cisco Fast Ethernet SFP Modules

Cisco offers a range of Fast Ethernet SFP Interface Converters. The product portfolio includes 100BASE-FX, 100BASE-LX, and 100BASE-BX SFPs.

SFP Modules SFP and SFP+ Modules Small Form-Factor ...

Introduction Advantech''s small form-factor pluggable (SFP) transceiver family is available with a variety of types of copper SFP and fiber SFPs, SFP+. This transceiver module is compliant

Optical module

An optical module is a typically hot-pluggable optical transceiver used in high-bandwidth data communications applications. Optical modules typically have an electrical interface on the side that

Lantronix TN-GLC-FE-100xX Cisco SFP Module

Lantronix TN-GLC-FE-100xX Cisco SFP Module - For Switch, Router, Data Networking, xDSL Application, Optical Network - 1 x LC Duplex 100Base-FX Network - Optical Fiber - Multi-mode - Fast

SFP-FE-BX 20km SC Suppliers,manufacturers -Etulinktechnology

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Cisco SFP and SFP+ Transceiver Module Installation Notes

This installation note provides the installation instructions for the Cisco small form-factor pluggable (SFP) and SFP+ transceiver modules. These transceiver modules are hot-swappable

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Types of 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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Huawei 02315233 SFP-FE-SX-MM1310 100M/155M 1310nm 2km LC Multi-mode Module Product Description: Module name eSFP-FE-LX-SM1310 Part Number 02315205 Model eSFP-FE-LX

SFP Optical Transceiver Modules for Long Distance: A

Discover everything you need to know about SFP optical transceiver modules for long-distance fiber transmission. Compare LX, EX, ZX models and

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