

Huawei Gigabit Single-Mode Optical Module SC



Article Overview

Huawei Single-Mode Gigabit Optical Modules provide reliable 1 Gbps fiber connectivity over single-mode fiber, supporting distances up to 10-40 km depending on the model.

Key Specifications

- Data Rate: 1 Gbps (1000BASE-LX/LH) for Gigabit Ethernet applications .
- Wavelength: 1310 nm, optimized for single-mode fiber transmission .
- Transmission Distance: Typically up to 10 km for standard modules, with some models supporting up to 40 km for long-range applications .
- Connector Type: LC duplex connector, allowing easy integration into existing network infrastructure .
- Form Factor: eSFP (enhanced Small Form-factor Pluggable), hot-swappable for minimal downtime during installation or replacement .
- Digital Diagnostic Monitoring (DDM): Supported on certain models, enabling real-time monitoring of optical power, temperature, and transceiver health to enhance network reliability .

Features and Benefits

- High Reliability: Designed for stable and secure data transmission over single-mode fiber, suitable for enterprise networks, data centers, and carrier environments .
- Ease of Deployment: Hot-swappable eSFP form factor allows quick installation and...

Article Content

Oct 18, 2025

Types of Optical Modules

Multimode optical modules are used with multimode fibers. Multimode fibers have lower transmission performance than single-mode

Jan 18, 2026

02315200

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

Nov 09, 2025

What Is an Optical Module and Its FAQs (V200)

What Is an Optical Module and Its FAQs (V200) Describes what an optical module is and FAQs, including the fundamentals,

Mar 10, 2026

Optical Modules for Huawei S Series Switches

Multi-mode optical modules are applicable to short-distance transmission, while single-mode optical modules are applicable to long

Jun 10, 2026

Types of Optical Modules

Single-mode optical modules are used with single-mode fibers. Single-mode fibers support a wide band and large transmission

Apr 29, 2026

Understanding Optical Modules

For single-mode optical modules, single-mode optical splitters are not recommended due to considerations on the IEEE standard link

Mar 18, 2026

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

Aug 30, 2025

1 Gbit/s SFP Optical/Electrical Modules

1 Gbit/s SFP Optical/Electrical Modules 1 Gbit/s SFP optical/electrical module apply to GE interfaces for interconnection between GE

May 13, 2026

Huawei SFP-GE-LX-SM1310 compatible SFP 1G

Compatible 1000Base-LX/LH Singlemode 10km 1310nm SFP Transceiver for Gigabit Ethernet.

Oct 16, 2025

10 Gbit/s SFP+ Optical Module

10 Gbit/s SFP+ Optical Module You can use different levels of 10 Gbit/s SFP+ optical modules only with 10 GE

Jan 05, 2026

01-10 OPTICAL MODULES

Single-mode optical modules are used with single-mode fibers. Single-mode fibers support a wide band and large transmission

Feb 15, 2026

Media Converter Application #shorts # shorts #network

Media converter can convert optical signals into electrical signals, plug-and-play, no

Jan 26, 2026

Buy Tested Huawei 1G SX, LX, EX, ZX, BX Modules for Routers

The Huawei 1G eSFP modules cover multiple needs of fiber connectivity and transmission in SX, LX, EX, ZX, BX, multimode, and

Oct 02, 2025

10G SFP+ Module SC 10KM BiDi Single Mode Fiber Optical

Buy 10G SFP+ Module SC 10KM BiDi Single Mode Fiber Optical Transceiver Module For H3C, Ruijie, Huawei, Ubiquiti, TP

Jul 31, 2025

Buy Huawei SFP Modules Online in UAE

The Huawei SFP Modules come in many varieties, such as single-mode and multi-mode fiber, with LC type and MPO type, and

Feb 22, 2026

Huawei SFP-1G-LX-20KM-HU SFP 1000BASE-LX Singlemode

SFP-1G-LX-20KM-HU 1000BASE-LX SFP transceiver with LC Duplex connection according to MSA standards

May 26, 2026

Understanding Pluggable Optical Modules

Therefore, optical modules are also classified into single-mode and multimode modules to support different optical fibers. Single

Jun 12, 2026

SFP-GE-LX-SM1310

This product is 100% compatible with all Huawei products that support 1000BASE-LX/LH SFP

May 21, 2026

1Gbps eSFP Optical Modules

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

Jun 27, 2026

SFP-10G-LR, Huawei SFP+ Optical Transceiver, 10G, 1310nm, 10km

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

Oct 05, 2025

Installing Optical Transceivers and Connecting Optical Fibers

The USG supports both 1 Gbit/s, 10 Gbit/s, and 40 Gbit/s optical modules. The optical modules at both ends are the same, including

Dec 14, 2025

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.

May 12, 2026

GE eSFP Optical Modules

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

Sep 12, 2025

OPTICAL MODULES FOR HUAWEI S SERIES SWITCHES

To determine whether optical modules delivered for Huawei switches before July 1, 2013 are certified ones, contact Huawei technical

May 24, 2026

Huawei Optical Transceiver eSFP GE Single-Mode Module

Description The Optical Transceiver eSFP GE Single-Mode Module (1310 nm, 10 km, LC) is a high-performance Gigabit Ethernet

Jun 06, 2026

Latest 2025 | huawei h3c gigabit optical module recommendations! a ...

This huawei h3c gigabit optical module sfp-ge-lx-sm1310-d supports 1.25g rate, is compatible with single-mode and

Sep 28, 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

Dec 21, 2025

Optical Modules in General-Purpose Computing Scenarios

Huawei offers a comprehensive portfolio of pluggable StarryLink optical modules for data center networks, with various models

Dec 06, 2025

Types of Optical Modules

Optical modules are encapsulated in different modes to provide different structures. Huawei S series devices support optical modules

Feb 27, 2026

Optical Fiber

Description Determine the type and number of optical fibers based on the optical modules used: Single-mode optical modules must

Dec 05, 2025

2025's latest reviews: a comprehensive guide to huawei 10g single

Huawei 10g single-mode single-fiber optical module (sc/lc port, 1270/1330nm, supports 20km/40km/80km) is a classy

Jul 17, 2026

Huawei GE Optical Modules

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For more information, pricing, or custom solutions, please contact us:

Website: <https://www.chromadecksigns-eastrand.co.za>

Email: sales@chromadecksigns-eastrand.co.za

Phone: +32 2 318 5792

Address: Avenue Louise 500, 1050 Brussels, Belgium

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