

Maximum transmission distance of Huawei s 850nm multimode optical module



Overview

With a wavelength of 850 nm and a maximum transmission distance of 300 meters, this module is optimized for data centers, enterprise core switches, and high-performance computing networks that require low latency and high throughput. You can use different levels of 1. 25 Gbit/s SFP/eSFP optical modules with GE interfaces and 10 GE interfaces. When used with multimode optical fiber (LC/PC-LC/PC OM2), the transmission distance can reach up to 550 m, the transmission. The 850nm 0. 3km MM HXB is a Huawei high-quality 10G SFP+ transceiver, engineered for short-range, high-speed data transmission over multimode fiber (MMF). Compliant with 1000base-SX standard. Leveraging VCSEL (Vertical-Cavity Surface-Emitting Laser) technology, 850nm modules offer low power consumption, high compatibility, and strong performance for distances up to several hundred meters. Why Choose the 850nm Wavelength?

Industry Standard: IEEE 802. 22 km Transmitter Optical Characteristics Center wavelength : 850 nm Maximum Tx optical power : -2.



Article Content

Aug 15, 2025

Huawei ESFP-GE-SX-MM850

Check Huawei eSFP-GE-SX-MM850 product detail and price trend at [itprice](#) .

Oct 08, 2025

How to Estimate an Optical Module's Transmission

Optical modules distinct from one another in their transmission distance, a feature that should be taken into account in addition to other

May 06, 2026

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.

Apr 25, 2026

Optical Modules for Huawei S Series Switches

For example, an OMXD30000 multimode optical module supports a maximum transmission distance of 400 m, but the actual transmission distance varies depending on the optical fibers used.

Feb 14, 2026

Huawei eSFP-GE-SX-MM850 Optical Transceiver

Original Huawei eSFP-GE-SX-MM850 optical transceiver for 1Gbps networks. 850nm wavelength, 0.5km multimode fiber range, LC connector, 0-70°C

Jun 03, 2026

850nm 0.3km MM HXB Huawei 10G High Quality SFP+ Transceiver

With a wavelength of 850 nm and a maximum transmission distance of 300 meters, this module is optimized for data centers, enterprise core switches, and high-performance computing networks that

Sep 20, 2025

The relationship between wavelength and transmission

At a wavelength of 850nm, a 100M optical module can transmit up to 2km, a 1G can transmit up to 550m, a 10G can transmit up to 300m, a 40G can transmit up to

Sep 08, 2025

Huawei eSFP-GE-SX-MM850 Optical Transceiver, eSFP, GE, Multi-mode Module,

Multimode Fiber: Supports multimode fiber for short-distance data transmission.

850nm Wavelength: Operates at 850nm for efficient optical communication. Gigabit

Ethernet: Supports 1 Gbps data

Apr 24, 2026

100G QSFP28 Optical Transceiver Modules | FiberMall

FiberMall offers 100G QSFP28 Optical Transceiver Modules provides 100 Gigabit Ethernet connectivity for up to 100km transmission with the MPO/LC connector.

Jan 17, 2026

Small Form-factor Pluggable

Small Form-factor Pluggable Small Form-factor Pluggable connected to a pair of fiber-optic cables Small Form-factor Pluggable (SFP) is a compact, hot-pluggable

Jun 30, 2025

1.25 Gbit/s SFP/eSFP Optical Module

The wavelength of common 1.25 Gbit/s SFP/eSFP optical modules 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).

Jul 09, 2025

Huawei OMXD30000 Optical Transceiver,SFP+,10G,Multi-mode

Specifications Product Name Huawei OMXD30000 Optical Transceiver Form Factor SFP+ (Small Form-Factor Pluggable Plus) Data Rate 10 Gbps (10 Gigabit Ethernet) Wavelength 850 nm Maximum

Jul 05, 2025

850nm 0.3km MM HXB Huawei 10G High Quality SFP+ Transceiver

The 850nm 0.3km MM HXB is a Huawei high-quality 10G SFP+ transceiver, engineered for short-range, high-speed data transmission over multimode fiber (MMF). With a wavelength of 850 nm and a

Dec 04, 2025

Huawei eSFP-GE-SX-MM850 02313URD Optical Transceiver,eSFP,GE,Multi-mode ...

News Huawei eSFP-GE-SX-MM850 02313URD Optical Transceiver,eSFP,GE,Multi-mode Module (850nm,0.55km,LC) The Huawei eSFP GE SX MM850 02313URD Optical Transceiver is a compact,

Aug 29, 2025

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 interfaces and 10 GE interfaces. The wavelength of common

Jun 07, 2026

eSFP-GE-SX-MM850

Wavelength: 850nm Connector: Duplex LC Cable Type: MMF Reach Distance: 550m Operating Temperature Range: 0°C to 70°C Digital Optical Monitoring (DOM): Without Applications: 1000BASE

Aug 04, 2025

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

When used with multimode optical fiber (LC/PC-LC/PC OM2), the transmission distance can reach up to 550 m, the transmission rate is 1.25 Gbps, and the interface type is LC Duplex.

Jan 21, 2026

Huawei eSFP-GE-SX-MM850 Optical Transceiver,

Huawei eSFP-GE-SX-MM850 optical transceiver module, 850nm multi-mode,

Jul 14, 2025

850nm Optical Transceivers: The Best Solution for Short

For these scenarios, 850nm optical transceivers combined with multimode fiber (MMF) have become the most cost-effective and widely adopted

Oct 26, 2025

Huawei eSFP-GE-SX-MM850 Optical Transceiver,

Huawei eSFP-GE-SX-MM850 optical transceiver module, 850nm multi-mode, 1Gbps speed, LC connector, 1km max distance. Compliant with 1000base-SX standard.

Nov 28, 2025

Huawei 02315204 Datasheet

Connector type: LC Optical fiber type: MMF Working case temperature [$^{\circ}\text{C}$ ($^{\circ}\text{F}$)]: 0°C to 70°C (32°F to 158°F) Transmission rate [bit/s]: 1 Gbit/s Target transmission distance : Multimode fiber (with

Jan 01, 2026

Wavelength and Transmission Distance of Optical

Therefore, multi-mode fiber mostly uses 850nm wavelength optical transceiver modules for connection and transmission. Under 850nm wavelength, 100Mbps

May 05, 2026

eSFP-GE-SX-MM850 (02315204 02313URD) Datasheet

Overview Huawei eSFP-GE-SX-MM850 Optical Transceiver, eSFP, GE, Multi-mode Module (850nm, 0.55km, LC).

Aug 12, 2025

850nm Optical Transceivers: The Best Solution for Short

Leveraging VCSEL (Vertical-Cavity Surface-Emitting Laser) technology, 850nm modules offer low power consumption, high compatibility, and

Sep 27, 2025

Huawei SFP-GE-SX-C 02312UUB Optical Transceiver,eSFP,GE,Multi-mode ...

8. Applications: This eSFP module is ideal for use in data centers, enterprise networks, and other environments where high speed, short distance fiber optic connections are required. 9.

Jul 02, 2025

Huawei 02312UUB Datasheet

Huawei 02312UUB Datasheet Huawei 02312UUB SFP-GE-SX-C eSFP-GE-SX-MM850 Optical Transceiver, eSFP, GE, Multi-mode Module (850nm,0.55km, LC)

May 16, 2026

The relationship between wavelength and transmission

When paired with multimode, the maximum transmission distance is 2km, and when paired with single-mode, the maximum transmission distance is 40km. At 1310nm

Contact Us

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