

# Ge optical module transmission distance



## Overview

5KM SFP/SFP-GE-SX Huawei is a brand new Gigabit Ethernet optical transceiver designed for short-distance multimode fiber (MMF) transmission up to 550 meters. In reality, SFP transmission distance is defined by optical design—not data rate. An SFP (Small Form-factor Pluggable) module transmits data over fiber using specific wavelengths and power levels, which directly influence how far the signal can travel before degradation occurs. This article will introduce in detail the definition, transmission distance, parameters, and application fields of Gigabit multi-mode optical. In the previous article, we introduced the definition, transmission distance, parameters, and its application areas of Gigabit Multimode Optical Module SFP-GE-SX, etc. Bidirectional modules must be used in -D and -U pairs. For a complete listing of hardware compatible with these modules, see the. 100 Mbit/s eSFP optical modules apply to the GE optical ports of Combo ports.



## Article Content

Oct 24, 2025

Going the Distance: The Tech Behind Long-Haul Fiber

Long-haul transmission uses fiber optic cables to send data quickly and securely over long distances, connecting cities and countries for fast

Jun 19, 2026

Optical/Electrical Modules

1 Gbit/s eSFP optical modules apply to the GE optical ports of Combo ports and GE optical ports. The wavelength can be 850 nm, 1310 nm, or 1550 nm, and the transmission distance ranges from 0.5 km

Sep 30, 2025

The Best Optical Transceiver Modules for 5G Fronthaul

The fronthaul optical module mainly includes 25Gb/s and 100Gb/s two rate types, supporting hundreds of meters to 20 km of typical transmission distance.

Jun 07, 2026

Optical module transmission distance and related classification

However, the transmission distance of the optical module is not as far as possible, and appropriate solutions should be adopted in due course. The long-distance applications are mainly in

Jun 11, 2026

GE eSFP Optical Modules

LE2MGSC40ED0 S-SFP-GE-LH40-SM1310 S-SFP-GE-LH40-SM1550 S-SFP-GE-LH80-SM1550 SFP-GE-BXU1-SC SFP-GE-EX-C SFP-GE-LX-SM1310 (02315200) SFP-GE-LX-SM1310-BIDI (02315285)

Mar 24, 2026

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

Jun 24, 2026

Checking Whether the Optical Fiber and Optical Module

They are often used for long-distance transmission. GE and 10GE optical modules have the same appearance. You can distinguish them based on the interface

May 31, 2026

### Connection Schemes for Optical Module and Fiber Patch Cord

Optical modules come in various transmission rates and distances. Therefore, when selecting fiber patch cords for optical modules, it's essential to choose the type that matches the

Nov 07, 2025

### Basic Knowledge Of Optical Module Transmission Distance

Generally, short-range modules can reach up to 2 km, medium-range modules range from 10 km to 20 km, and long-range modules can exceed 20 km. Q: How do I

Jul 01, 2025

### 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-distance transmission. Single-mode optical modules will be widely

Feb 28, 2026

### DK-ST100-80E3 | Optical Data Transmission Module DK-ST100 Series

Dimensional Drawings/Wiring Diagrams Downloads ... Dimensions Input and Output Signal Connection Input signal connection Output signal connection KeyWords Optical Data Transmission module

Oct 12, 2025

### SFP-GE-SX-MM850-IN

Home Products Transmission Switches Optical Modules SFP-GE-SX-MM850-IN Gigabit Multi-Mode 500m Optical Module Specification

Oct 02, 2025

### SFP Distance Explained: Real-World Range, Limits, and Optics

Understand SFP distance, fiber optic range, and real-world limits of SR/LR modules. Learn how wavelength, fiber type, and optics affect performance.

Sep 09, 2025

### GE SFP 10KM Module

The GE SFP 10KM Converter Modules are equipment that enable the increase of the coverage area of networks and, combined with a high data transfer rate, meet the new convergent demands of data

Jan 12, 2026

GE SFP 10KM Module

Standard LC connector Support for Full Duplex operating mode and Gigabit Ethernet technology Maximum transmission distance of 10 km Use of Single-Mode Optical Fiber (SMF)

Feb 17, 2026

1 Gbit/s SFP Optical/Electrical Modules

1 Gbit/s SFP optical/electrical module apply to GE interfaces for interconnection between GE optical and electrical interfaces. SFP-1000BaseT

Feb 04, 2026

Introduction of GE SFP Optical Modules

SFP Optical Modules (Small Form-factor Pluggable) are compact, hot-swappable transceivers used for telecommunication and data communication

May 10, 2026

Exploring the Correlation Between Optical Module

This article delves into the correlation between optical module wavelength and transmission distance, shedding light on the complexities that

Mar 07, 2026

Wavelength and Transmission Distance of Optical

The price of the optical sources and signal converters that are paired with 850nm optical transceiver modules is far lower than the prices of 1310nm and 1550nm

Dec 24, 2025

Knowing about 1.25G multi-mode optical Transceiver: SFP-GE-SX

The transmission distance of the Gigabit multi-mode optical module SFP-GE-SX is related to many factors, including fiber quality, data transmission rate, light source power and receiver sensitivity.

Sep 06, 2025

Gigabit Multimode SFP-GE-SX Frequently Asked Questions and

In the previous article, we introduced the definition, transmission distance, parameters, and its application areas of Gigabit Multimode Optical Module SFP-GE-SX, etc.

Apr 22, 2026

SFP-GE-ZX80-SM 1550 1.25G 80Km Optical Transceiver

SFP-GE-ZX80-SM 1550 1.25G 1550nm 80Km Optical Transceiver Module CISCO, HUAWEI, H3C, Juniper, D-link, HP, IBM, dell, Mikrotik, Aruba, Quidway

May 31, 2026

Types of Optical Modules

Otherwise, the remote optical module may be burnt. Generally, an optical attenuator is required if an optical module supporting a transmission distance longer than 10 km is used together with short

Oct 29, 2025

Exploring the Correlation Between Optical Module Wavelength and ...

This article delves into the correlation between optical module wavelength and transmission distance, shedding light on the complexities that impact the efficiency of data transmission.

Oct 05, 2025

GE 0.5KM SFP/SFP-GE-SX Huawei Brand New Optical Transceiver

The GE 0.5KM SFP/SFP-GE-SX Huawei is a brand new Gigabit Ethernet optical transceiver designed for short-distance multimode fiber (MMF) transmission up to 550 meters.

Mar 06, 2026

Pluggable Transceivers Installation Guide

Transmission distances are provided as a nominal guide only. To determine achievable distances, refer to the device's optical specifications and to the specific characteristics of your fiber installation.

Feb 22, 2026

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

## Contact Us

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

Website: <https://www.piano-lessons.co.za>

Email: [info@piano-lessons.co.za](mailto:info@piano-lessons.co.za)

Phone: +31 6 37258914

Address: Herengracht 123, 1015 BT Amsterdam, Netherlands

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