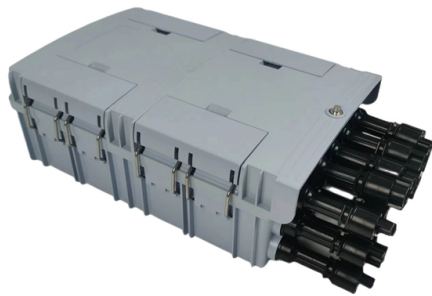


850 optical module transmission distance



Overview

Q1: What is the maximum transmission distance of an 850nm transceiver?

A: Typically up to 550m on OM4 fiber at 10G, and around 100-150m at 40G/100G.

Q2: Why are 850nm transceivers cheaper than 1310nm modules?

A: They use VCSEL lasers, which are cost-effective, energy-efficient. 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 802.3 standards such as 10GBASE-SR. Use one of the options below to locate your desired product. Speed of Optical Port The 2.5GBASE-SR SFP Optical Transceiver Module is a high-performance small form-factor pluggable SFP module for 2.5Gb/s serial optical data communications such as SDH STM-16 I-16/SONET OC-48 SR-1/2x Fiber Channel applications. Short distance transmission usually refers to transmission distances below 2km, with a medium distance of 10-20km.



Article Content

Oct 16, 2025

Wavelength and Transmission Distance of Optical ...

The transmission distance of optical transceiver modules is divided into short distance, medium distance, and long distance. Usually, short-distance ...

Jul 13, 2025

Dahua GSFP-850-MMF Gigabit Optical Module

Transmission distance up to 550 m: Allows for long-distance connections, reducing the need for additional equipment or repeaters. Ensure fast, reliable data transfer with the Dahua GSFP-850 ...

Jul 30, 2025

850nm Optical Transceivers: The Best Solution for Short-Reach ...

Perfect Match with MMF: Optimized for OM3, OM4, and OM5 multimode fibers, 850nm modules ensure reliable short-reach transmission at 10G, 40G, 100G, and even 400G data rates.

Oct 08, 2025

The relationship between wavelength and transmission distance of ...

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 400m, and 100G and 400G can ...

Dec 12, 2025

Wavelength and Transmission Distance of Optical Transceiver Modules

The transmission distance of optical transceiver modules is divided into short distance, medium distance, and long distance. Usually, short-distance transmission refers to a transmission distance of ...

Feb 22, 2026

25 Gb/s 850 nm Multi-Mode SFP28 Transceiver

This module is designed to operate over multimode fiber systems using a nominal wavelength of 850nm. It has a transmission distance of up to 70 m on OM3 and 100 m on OM4 multi-mode fibers. The ...

Jan 24, 2026

10GBASE-SR XFP 850nm 300m MMF Optical Transceiver Module

The XFP module is compliant with the 10G Small Form-Factor Pluggable (XFP) Multi-Source Agreement (MSA), supporting data-rate of 8.0~11.1Gbps, and transmission distance up to 300m with OM3 ...

Sep 13, 2025

GSFP-850-MMF

GSFP-850-MMF Gigabit Optical Module > Multiple mode double fiber > LC port > 850 nm sending, and 850 nm receiving > Transmission distance up to 550 m
Specifications Accessories Download

Jan 07, 2026

3Gbit SDI Optical Transmitter

The OH-TX-0-850-MM SDI optical transmitter is an integrated part or plug in option for select LYNX Technik yellowbrik and Series 5000 products. This SFP module facilitates the conversion of an ...

Jan 31, 2026

2.5GBASE-SR SFP 850 nm 550 m DDM Multimode Module

This SFP transceiver module provides a transmission distance of 550m over multimode fiber at a nominal wavelength of 850nm. The transmitter part adopts an 850nm VCSEL laser, which ...

Feb 11, 2026

850nm SFP Transceiver Guide: Uses, Specs & Fiber Types

An 850nm SFP module is defined by its data rate, supported fiber type, transmission distance, and physical compatibility, and it is available across multiple speed tiers, not only 1G and 10G.

Contact Us

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

Website: <https://www.professionistidelve.it>

Email: info@professionistidelve.it

Phone: +49 176 4829 3715

Address: Friedrichstraße 123, 10117 Berlin, Germany

This document is for informational purposes only. Specifications subject to change without notice.

