

Short-range 10km optical module



Overview

SR (Short-Range) modules typically operate at an 850nm wavelength and use multimode fiber (MMF) as the transmission medium. This article explores the differences between long-range and short-range 10G modules, when to use each type, and how FS products can help you build the right network infrastructure. What Are Short-Range and Long-Range SFP Modules?

In optical communication, SR and LR SFP modules are among the most. Trusted Partner in Advanced Networking: Optical Transceivers, DWDM Systems, Cisco & Fortinet Gear, 1600G-10G Solutions. Do you really need a 10km module for a 300m connection?

Many customers unknowingly overspend by not matching transceiver distance with real needs. Find the right 10G module for your network deployment. The Cisco ® 10GBASE SFP+ modules (Figure 1) give you a wide variety of 10 Gigabit Ethernet connectivity options for data center, enterprise wiring closet, and service provider. 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.



Article Content

Specifications of the Fiber Gigabit Ethernet SFP, XFP, SFP+, QSFP+ ...

Topic The following specifications are for the available Fiber Gigabit Ethernet modules and the platforms that support those modules. Important: The end user must ensure suitability of

10GE SFP+ Optical Modules

If the SFP-10G-ER-1310 is connected to a 10Gbase-ER standard optical module (1550nm, 10GE, 40km), the maximum transmission distance is only 20km due to different specifications such as wavelength

The Ultimate Guide to SFP Modules (2026): Types, Speeds

Confused by SFP vs SFP+? Read the definitive 2026 guide on SFP modules. We explain Single Mode vs Multimode, DDM diagnostics, and how to choose the right transceiver for Cisco, Juniper, and more.

optical transceiver sfp+ 10g single mode module

Upgrade networks with our optical transceiver sfp+ 10g single mode module 1310nm 10km lc. This LC transceiver delivers effortless 10km connectivity for data

Cisco 40GBASE QSFP Modules Data Sheet

The Cisco® 40GBASE QSFP (Quad Small Form-Factor Pluggable) portfolio offers customers a wide variety of high-density and low-power 40 Gigabit Ethernet connectivity options for

Huawei 40G QSFP Switch Guide: CE6800 & CE12800 Specs

QSFP+ 40G CWDM4 Duplex 100m 10km 20km 40km 60km 80km 100km SR4 LR4 ER4 ZR4 MPO LC Optical QSFP CWDM Transceiver SFP Module \$22-1,600 5.0(800) MOQ: 1 piece Huawei 40G

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 network interface module format used for both telecommunication and

1000BASE-SX vs 1000BASE-LX, EX, ZX & BX SFP Guide

1000BASE-SX, 1000BASE-LX, 1000BASE-EX, 1000BASE-ZX and 1000BASE-BX are all Gigabit Ethernet fiber optic module terms, but they are not the same type of link. They differ in fiber

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

SFP distance refers to the maximum effective range over which an SFP optical module can transmit data while maintaining signal integrity. It is typically measured in kilometers (km) for

SFP Modules: The Unsung Heroes of Modern Networks

SFP BY CONNECTION TYPE SFP-SX — Multimode fiber, short range (up to 550m), used for short data center/campus links SFP-LX — Single-mode fiber, long range (up to 10km), ideal for building-to ...

400G Optical Modules 2026 Guide: DR4 vs. FR4 vs. LR8 Lab

Quick Answer: What are 400G Optical Modules? 400G optical modules are high-speed transceivers using PAM4 modulation and multi-lane architectures to enable ultra-high bandwidth

SFP Optical Transceiver Modules for Long Distance: A Complete

Overview: Why Long-Range SFP Modules Matter in Modern Networks In an era where enterprises are rapidly expanding their network infrastructure, SFP optical transceiver modules

Select The Right Fiber Patch Cables For 1G/10G/25G Modules

Deploying optical modules requires the right fiber patch cable. It directly affects network connection stability, performance, and maintenance. This article will explain how to pick the right fiber

Optical Module Working Principle | SFP Transceiver Technical Guide ...

Understanding the working principle of optical modules—especially SFP transceivers—is critical for network engineers, data center operators, and telecom professionals tasked with building

Contact Us

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

Website: <https://umele-pestovani.eu>

Email: info@umele-pestovani.eu

Phone: +49 152 287 6349

Address: Neue Mainzer Straße 66-68, 60311 Frankfurt am Main, Germany

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

