

SFP optical module fiber length



Overview

The Cisco 10GBASE-SR module supports a link length of 26 meters on standard Fiber Distributed Data Interface (FDDI)-grade Multimode Fiber (MMF). Using 2000 MHz * km MMF (OM3), up to 300-meter link lengths are possible. This is why two modules with the same form factor can have dramatically different ranges—some limited. Small Form-factor Pluggable (SFP) is a compact, hot-pluggable network interface module format used for both telecommunication and data communications applications. Think of it as the “translator” for your network equipment, converting electrical signals into optical signals. Single-mode optical modules use the single-mode fiber, wavelength, connector, and reach specified for the exact PID; OS2 is common in premises cabling, but core, attenuation, dispersion, patching, and link budget must be verified.



Article Content

Apr 12, 2026

Cisco SFP-10G-SR module fiber length question

I would like some clarification on fiber lengths when using a SFP-10G-SR module. The link below indicates it supports

Mar 29, 2026

Single-mode vs Multimode SFP 2026: Fiber Types and distances

A guide to single-mode vs multimode SFP modules. Covers fiber types, wavelengths, distances, BiDi, CWDM/DWDM, SMF vs MMF

Feb 18, 2026

SFP-10G-ER Explained: Powering 40km 10Gbps Optical Links

SFP-10G-ER is a 10G SFP+ transceiver for up to 40km over single-mode fiber, featuring 1550nm wavelength, LC

May 31, 2026

SR SFP Module: Specs, Compatibility, and Selection Guide

This guide explains SR SFP modules, including wavelength, fiber requirements, typical reach, compatibility issues,

Dec 03, 2025

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

Understanding the working principle of optical modules—especially SFP transceivers—is critical for network

Dec 25, 2025

What is the maximum length of SFP+ fiber?

The maximum length of SFP+ (small form-factor pluggable) fiber is typically around 10 kilometers (6.2 miles) when

Oct 06, 2025

Unlocking the Potential of Fiber SFP Modules: A

The main difference among the SFP modules is their classification according to data rate,

Mar 24, 2026

How to Choose SFP Module | FIBEYE

Price Single-mode modules are typically more expensive than multi-mode modules because they use more components and more

Feb 21, 2026

Ultimate Guide to SFP+ Modules: Types, Applications, and Selection

SFP+ transceiver modules are an advanced iteration of the Small Form-factor Pluggable (SFP) interfaces designed to

Apr 02, 2026

SFP Optical Module Specifications: Standards & Performance

This guide dives into the key SFP Optical Module Specifications that engineers, network architects, and procurement

Mar 11, 2026

What Is an SFP Optic Module and How Does It Work

SFP optic modules convert electrical to optical signals for fast, long-distance data transfer.

Jun 04, 2026

What Is an SFP Optical Module? Guide | PHILISUN

A standard SFP optical module requires two fiber strands (one for TX, one for RX). A BiDi (Bi

Oct 08, 2025

SFP+ SR, LR, and ER Modules: Your Definitive Guide

SFP+ SR, LR, and ER Modules explained: key differences, fiber compatibility, distances,

Oct 07, 2025

How to Choose a 10G SFP+ Optical Module

How to Choose the Right Walsun 10G SFP+ Optical Module When selecting the appropriate Walsun 10G SFP+

Feb 16, 2026

What is SFP+ Module? An Ultimate Guide (2024)

The SFP+ module is also called the SFP+ transceiver, SFP+ optical module, SFP+ optics,

Oct 04, 2025

SFP Modules: Types, Selection Guide & Applications

An SFP module is a compact, hot-swappable optical transceiver designed to facilitate data transmission between

Sep 24, 2025

SFP Optical Transceiver Modules for Long Distance: A Complete

Discover everything you need to know about SFP optical transceiver modules for long-distance fiber transmission.

Sep 25, 2025

What Is an SFP Module? — Complete Guide to SFP, SFP+ & SFP28

An SFP (Small Form-factor Pluggable) is a compact, hot-pluggable transceiver module that allows networking equipment — including

Jan 09, 2026

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

Feb 20, 2026

SFP Optical Module Specifications: Standards & Performance

SFP (Small Form-factor Pluggable) optical modules are compact, hot-pluggable transceivers that enable network

Mar 02, 2026

SFP module specification and selection guide (EN)

CXR SFP Modules are industry standard Small Form Pluggable optical modules that serve networking services in the range of low

Feb 17, 2026

SFP Modules: The Key to Efficient Fiber Optic Connectivity

Explore the world of SFP modules - the compact, flexible, and high-speed solution for data transmission in fiber optic

May 13, 2026

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

SFP (Small Form-factor Pluggable) is a compact, hot-pluggable network interface module used to connect network devices

Nov 20, 2025

FS Community

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Jan 28, 2026

Cisco 10GBASE SFP+ Modules Data Sheet

The Cisco 10GBASE-SR module supports a link length of 26 meters on standard Fiber

Aug 29, 2025

SFP module specification and selection guide (EN)

SFP modules provide LC connectors. Fiber cables are offered on option to connect to distribution frames and convert to other types

Apr 02, 2026

Unlocking the Secrets of Fiber SFP Connectors: A

Fiber SFP and RJ45: Combining Optical and Copper in Network Design In the plan of a

Aug 15, 2025

What is SFP Module? An Ultimate Guide (2024)

An SFP module is a small, pluggable optical transceiver that fits into the SFP port of a networking switch or other

Aug 20, 2025

SFP Module: What's It and How to Choose It?

The SFP transceiver module is not standardized by any official standards body but rather by a multi-source agreement

Contact Us

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