

What interface does the SFP28 optical module correspond to



Overview

SFP28 is a 25 Gbit/s interface which evolved from the 100 Gigabit Ethernet interface which is typically implemented with 4 by 25 Gbit/s data lanes. Identical in mechanical dimensions to SFP and SFP+, SFP28 implements one 28 Gbit/s lane accommodating 25 Gbit/s of data with. SFP28 modules send data very fast, up to 25Gbps. This helps networks move more data quickly and easily. This makes it easy to upgrade without buying all new equipment. These hot-pluggable optical modules consume low-power and are offered in the extended temperature range. When used with Intel® Ethernet Network. The Cisco® 25GBASE SFP28 (Small Form-Factor Pluggable) portfolio offers customers a wide variety of high-density and low-power 25 Gigabit Ethernet connectivity options for data center and high-performance computing networks applications.



Article Content

Nov 08, 2025

Pluggable Optical Module Market Research Report 2034

Pluggable Optical Module Market Outlook 2025-2034 The global pluggable optical module market was valued at \$9.8 billion in 2025 and is projected to reach \$26.4 billion by 2034, expanding at a

Feb 12, 2026

SFP28-25GBase-ER-S Datasheet | FluxLight

The SFP28 40KM transceivers is a very compact optical transceiver module converts 25Gbit/s serial CML electrical data into serial optical data compliant with the 25GBASE-ER standard. The SFP28

Jun 23, 2026

What is SFP28: A Comprehensive Guide

SFP28, standing for Small Form-factor Pluggable 28 Gigabit, is a hot-swappable module used for data transmission at high speeds (25 Gigabit Ethernet or 28 Gigabit Fibre Channel) over fiber optic

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What Is an SFP Module? Complete Guide

SFP modules, or Small Form-factor Pluggable modules, are essentially the workhorses of modern networking. They facilitate data

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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

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SFP28 vs SFP+ Transceiver, What is the Difference?

It has the same form factor and appearance as the SFP+ but supports up to 28Gbps electrical interfaces per channel. The SFP28 products

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25G SFP28 Optical Transceivers & Cables: Uses

The SFP28 has the same common form factor as the SFP+, and supports 25Gbps electrical interfaces per channel. It provides high bandwidth and transmission

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SFP vs SFP+: A Complete Guide to Compatibility and

Dual-rate 1G/10G SFP+ fiber modules can operate at either 1Gbps or 10Gbps depending on the port capabilities of the switch. In this setup, one

Nov 03, 2025

Demystifying SFP28: The Essential Guide to 25G

SFP28 is a 25G transceiver module for fast, efficient data transfer in modern networks, offering high speed, compatibility, and energy savings.

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The Most Comprehensive Guide Of Optical Modules

Explore the ultimate guide to optical modules. Learn types, functions, performance metrics & how to choose the right module for your fiber

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SFF-8402

The application reference model for an SFP+ optical module in Figure 5-1 shows the high-speed data interface between an ASIC and SFP+ modules. Not all optical modules or cables contain a Retimer

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Demystifying SFP28: The Essential Guide to 25G

Electrical Interface: While physically similar, SFP28 utilizes a higher-speed 28 Gbps electrical interface compared to SFP+'s 10Gbps. This electrical

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SFP vs SFP+: A Complete Guide to Compatibility and

Explore the ultimate guide to SFP vs SFP+ compatibility, covering interoperability and backward compatibility of SFP+ modules for seamless high

Aug 04, 2025

SFP28 25G SR Optical Modules: High-Performance Network Solution

Explore the benefits of SFP28 25G SR optical modules for fast, cost-effective connectivity in data centers, enterprise networks, and 5G. Upgrade your network with FS.

Sep 24, 2025

Lightwin SFP28 LWO-SFP28-SR-HPE transceiver | AiO.lv

Lightwin LWO-SFP28-SR-HPE is an SFP28 multimode fiber optic transceiver module that supports data rates up to 25.78 Gbit/s and uses an LC duplex connector.

Jan 04, 2026

SFP28 optical transceiver modules

SFP28 ports are 25G speed ports and similar in size to a 10G SFP+ or 1G SFP port. They have supporting circuitry to enable 25G speed transceiver, DAC, and AOC components.

Aug 07, 2025

QSFP28 Transceiver: Complete 100G Connectivity Guide (2026)

QSFP28 transceiver guide covering module types, pricing, compatibility, and deployment. Learn how to choose, deploy, and troubleshoot 100G QSFP28 optics.

Dec 26, 2025

Types of 25G SFP28 transceivers vs QSFP28 vs

The 25G SFP28 ER Lite (ER30) optical module with a center wavelength of 1310nm, duplex LC interface, single-mode, supports a

Feb 14, 2026

An In-depth Guide to 25G SFP28 Optical Transceiver

In the case of a 25G optical transceiver, each lane supports 25 Gbps, enhancing aggregate bandwidth without increasing port density or rack space. The SFP28

May 26, 2026

Intel® Ethernet SFP28 Optics

When used with Intel® Ethernet Network Adapters with SFP28 connectivity, these optics provide more secure connections for virtualization, flexibility for LAN and SAN networking, and consistently reliable

Mar 13, 2026

Intel E25GSFP28SR Datasheet

When used with Intel Ethernet Network Adapters with SFP28 connectivity, these optics provide more secure connections for virtualization, flexibility for LAN and SAN networking, and consistently reliable

Aug 08, 2025

SFP28 Modules: Guide for Data Centers and 5G

25G SFP28 modules boost network speed with compact, energy-efficient transceivers ideal for data centers and 5G fronthaul. Options include standard,

Mar 15, 2026

An in-depth analysis of SFP vs. SFP28 key differences in high-speed ...

SFP28 and SFP are two optical module interface standards. They differ in data transmission rate, application scenarios, physical interface specifications, etc.

Nov 09, 2025

SFP Fiber Optic Connector Types: LC, SC, MPO Explained

Most SFP fiber optic modules use LC connectors, while SC connectors are mainly found in legacy networks and MPO/MTP connectors are used for high-density cabling rather than directly on

Apr 11, 2026

SFP28 Transceiver: A Complete Guide

The SFP28, standing for Small Form-factor Pluggable 28 Gigabit, is a hot-swappable optical transceiver module used for high-speed data transmission in

Feb 13, 2026

25G SFP28 Optical Transceivers & Cables: Uses

25G SFP28 come in several of different products/setups: 25GBase SFP28 comes in following solutions: Multi-mode Transceivers, Single-mode Transceivers, BIDI,

Sep 03, 2025

What is SFP Port? Everything You Need to Know

What is an SFP port? The SFP port also refers to a Small Form-factor Pluggable port. It is a compact mechanical slot that accepts an SFP

Oct 15, 2025

An In-depth Guide to 25G SFP28 Optical Transceiver

In today's hyperscale data centers, enterprise networks, and telecom infrastructures, demand for higher bandwidth and lower latency is skyrocketing.

Mar 19, 2026

Cisco 25GBASE SFP28 Modules Data Sheet

Cisco SFP28 to SFP28 Active Optical Cables are direct-attach fiber assemblies with SFP connectors. They are suitable for very short distances and offer a cost-effective way to connect within racks and

Dec 09, 2025

Transceivers Explained: SFP vs SFP+ vs SFP28 vs QSFP+ vs QSFP28

Are you confused by the difference between SFP, SFP+, SFP28, QSFP+, and QSFP28 transceivers? You're not alone. As networks scale to meet the demands of cloud computing, AI, and edge services,

Contact Us

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

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