

Certified SFP Optical Transceiver Module



AI Overview

Certified SFP optical transceiver modules are compact, hot-pluggable devices that enable high-speed data transmission over fiber or copper networks, supporting various speeds, distances, and standards compliance.

Overview An SFP (Small Form-Factor Pluggable) optical transceiver is a modular device used in telecommunications and data networks to convert electrical signals into optical signals and vice versa. These modules are hot-pluggable, allowing easy installation or replacement without powering down the system, and are widely used in switches, routers, and servers for high-speed connectivity.

Types and Specifications

- Data Rates:** SFP modules support speeds from 1 Gbps (Gigabit Ethernet) to 10 Gbps (SFP+) and higher, with some tunable modules reaching up to 11.3 Gbps.
- Transmission Distance:** Depending on the module and fiber type, distances range from 30 meters to 160 kilometers, covering both short-range multimode fiber (MMF) and long-range single-mode fiber (SMF) applications.
- Wavelengths:** Standard SFPs operate at fixed wavelengths, while tunable SFP+ modules allow channel tuning across the C-band (1528–1566 nm) for flexible wavelength assignment in dense wavelength-division multiplexing (DWDM) networks.
- Compliance:** Certified modules adhere to MSA (Multi-Source Agreement) standards, ensuring interoperability across different vendors and network equipment.

Key Features

- Hot-pluggable design for easy maintenance and upgrades.
- Low power consumption and cost-effective connectivity solutions.
- Support for both fiber and copper interfaces, depending on the module type.
- High reliability with rigorous testing for seamless integration in enterprise and telecom networks.

Vendors and Availability

- FS:** Offers a wide range of SFP, SFP28, SFP56, and QSFP28 modules with varying speeds and distances, backed by a 30-day free return policy.
- Syrotech Networks:** Provides OEM-certified SFP modules in India, tested for compatibility and optimal performance.
- Advantech:** Supplies SFP modules for 10 Gigabit, Fast Etherne...

Article Content

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Cisco Transceiver Modules

Cisco Transceiver Modules - Learn product details such as features and benefits, as well as hardware and software specifications.

SFP+, XFP, QSFP+, DAC Twinax Cable 10Gtek Transceivers Co., Ltd

DAC Twinax Cable Maker. CE, FCC, RoHS, ISO9001 Certified. Professional Manufacturer focusing on SFP+ Cables, QSFP+ Cables, MiniSAS Cables, QSFP Cables, XFP Cables, CX4 Infiniband Cables

SFP Transceiver Modules | Optical Fibre & Copper Ethernet

AMG's optical & copper transceivers are compliant with the Small Form-Factor Pluggable (SFP) Multi-Source Agreement (MSA) standards. All AMG optical SFP modules feature Digital Diagnostic

100GBASE QSFP-100G Modules Data Sheet

QSFP-100G Optical modules Features and benefits of Cisco QSFP modules Hot-swappable input/output device that plugs into a 100G Gigabit

Bidirectional SFP Modules/Transceivers

Versitron offers single-mode and multimode Bidirectional SFP Modules suitable for point-to-point networking, metro access ring, PON, and FDDI. Get IEEE

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Certified Transceiver - Kramer certified, hot pluggable SFP copper module, for high quality transmission of 1000BASE - T signal over Cat5 UTP cable. Low power dissipation (~1W)

Optics Compatibility Matrix

Cisco Optics Playlist on Watch short videos explaining transceiver concepts and how Cisco Optics make life easier for network operators.

Official BlueOptics SFP manufacturer

Buy BlueOptics SFP, SFP+, QSFP and QSFP28 transceivers, DAC and AOC cables directly from stock. Shipping today.

1.6T OSFP224 | AI Ethernet Modules

FS provides 1.6T OSFP224, free & fast delivery, expert tech support, outstanding warranties.

SFP Optical Transceiver | SFP Optical Module | Perle

Perle SFP Optical Transceivers are designed for use with Perle SFP Media

Cisco 25GBASE SFP28 Modules Data Sheet

The Cisco 25GBASE SFP28 (Small Form-Factor Pluggable) portfolio offers customers a wide variety of high-density and low-power 25 Gigabit

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

Gigac Technology

Gigac is a leading manufacturer of fiber optic communication components and GPON equipment. We specialize in producing a wide range of optical

Cisco SFP and SFP+ Transceiver Module Installation

This installation note provides the installation instructions for the Cisco small form-factor pluggable (SFP) and SFP+ transceiver modules. These

Quality Certifications for Optical Transceivers

Certifications for optical transceivers validate performance, safety, and environmental compliance. They ensure modules meet global standards for

10G SFP+ Optical Transceivers | Transceiver Module

FS 10GbE SFP+ module solutions provide a wide variety of 10 Gigabit Ethernet connectivity options for data centers, enterprise wiring closets, Internet Service

Fiber optic transceiver BlueOptics XCVR-010M31 | AiO.lv

Discover the BlueOptics XCVR-010M31 fiber optic transceiver module with 1250 Mbit/s data rate. Fast delivery in Riga Latvia and EU.

Cisco Optics | Transform Your Network

Get the highest quality, performance-leading optical transceivers for any network architecture. Find the transceiver model to fit your network.

How to Choose the Right Fiber Optic Cable for Your Optical Transceiver ...

Learn how to choose the right fiber optic cable for SFP, SFP+, SFP28, QSFP+, QSFP28, QSFP-DD, and OSFP optical transceivers. Avoid common fiber compatibility mistakes and improve

SFP Optical Transceivers

Advantech's Small form-factor pluggable (SFP) transceiver modules provide a variety of speed, distances, and wavelengths to fit any need.

Leading Optical Transceiver Manufacturer since 2009-FIBERTOP

Optical transceivers are core components that convert electrical signals into optical signals and vice versa, widely used in data centers, communication networks, enterprise campuses and other

SFP Optical Transceiver Products | Syrotech Networks

Our SFPs are rigorously tested and Certified by TC, FCC, CE, RoHS and BIS - ensuring compliance for Indian telecom networks while prioritizing performance,

Contact Us

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