

Gigabit Single-Mode Single-Fiber Transceiver with Two Ports



AI Overview

Gigabit single-mode single-fiber SFP transceivers provide 1Gbps Ethernet connectivity over long distances with hot-pluggable, multi-port flexibility for enterprise and industrial networks. Overview Gigabit single-mode SFP (Small Form-factor Pluggable) transceivers are modular devices that convert electrical signals from network equipment into optical signals suitable for single-mode fiber. They are designed for long-distance communication, typically supporting spans from 10 km up to 180 km, depending on the model and wavelength used. These transceivers are hot-swappable, allowing installation or replacement without powering down the network, which is ideal for multi-port switches and routers in high-availability environments. Key Features Data Rate: 1 Gbps full-duplex Ethernet, compliant with IEEE 802.3 standards. Fiber Type: Single-mode fiber (SMF) for long-distance transmission; some models support single-fiber BiDi (bidirectional) links using a single strand of fiber for both transmit and receive. Connector Types: LC Duplex or LC Simplex connectors, depending on the module type. Distance Support: Standard single-mode SFPs cover 10 km (1000BASE-LX/LH), extended models up to 40 km (1000BASE-EX), and long-haul models up to 70 km (1000BASE-ZX) with appropriate optical budgets. Compatibility: Works with Cisco, Intellinet, and other MSA-compliant switches and routers, ensuring interoperability across multiple vendors. Durability: Metal housing reduces electromagnetic interference and enhances reliability in dense multi-port deployments. Digital Optical Monitoring (DOM): Some modules provide real-time monitoring of optical power, temperature, and voltage for network management. Multi-Port Deployment These transceivers are ideal for multi-port network setups, such as access-layer switches, aggregation switches, or server connections. Their c...

Article Content

Gigabit SFP Module: A Complete Guide to 1G SFP Transceivers

SFP Modules vs Fixed-Port Transceivers Unlike fixed-port transceivers, which are permanently integrated into network hardware, gigabit SFP modules are interchangeable and hot-pluggable:

Cisco 10GBASE SFP+ Modules Data Sheet

It supports link lengths of up to 70 kilometers on standard Single-Mode Fiber (SMF, G.652), assuming a fiber chromatic dispersion of 20 *ps/(nm km). This interface is not specified as part of the 10 Gigabit

Fiber Modules

All of them are hot-pluggable small-form factor transceiver modules integrated with the high sensitivity PIN receiver and signal conditioner for 1.25/10 Gigabit Ethernet applications. SFP modules support

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

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

2 Pack 1.25G/s Bidi Gigabit Single-Mode Fiber to

□High-Speed Gigabit Performance – Up to 20KM Transmission□Equipped with 1.25Gbps SFP ports and pre-installed BiDi single-mode SFP

1G SFP Transceivers | Mini-GBIC SFP Modules

FS gigabit ethernet transceiver solutions provide fibre or copper options including 1000BASE-SX, 1000BASE-LX/LH, 1000BASE-T etc., from 100m to 160km, for

RAMEX Ethernet to Fiber Converter Gigabit SMSF Up to 20KM Single Mode ...

Gigabit Singlemode Media Converter- Gigabit Singlemode SC Fiber Media Converter Built-in Single Mode transceiver with Dual SC Fiber Port, SMF 1310nm, up to 20km.

Cisco Catalyst 3750 Series Switches Data Sheet

This provides investment protection to customers who want to use their existing fiber plant, add uplink bandwidth capacity to their switching stacks,

1 Gigabit Singlemode SFP Fiber Optic Transceivers

Our 1 Gigabit Singlemode SFP Transceivers offer high-performance, reliable connectivity for singlemode fiber optic networks. These transceivers are

1 Gigabit Singlemode SFP Fiber Optic Transceivers

For more tailored solutions, other fiber optic transceivers on our website can be customized to your requirements. Common Uses for 1 Gigabit Singlemode SFP

Transceivers

The Hirschmann line has a variety of transmitter and receiver options available, allowing users to choose the correct transceiver for each link in order to provide

10G X2 ZR Module Guide: Specs, Compatibility & Sourcing

The phrase "10G X2 ZR" refers to a specialized 10 Gigabit Ethernet optical transceiver module designed for ultra-long-haul connectivity, reaching up to 80 km over single-mode fiber. FiberMall Exaoptics. Key

Gigabit SFP modules with fiber optic modes » buy

Our SFP modules support various fiber modes, including singlemode and multimode. Depending on your requirements, you need to select your SFP

Buy Transceivers - SFP, SFP+, and QSFP Modules

Transceiver Modules SFP Transceiver Modules Here you can find SFP, GBIC and all other types of modules for multi-mode as well as single-mode fiber-optics,

What Is A Single-Fiber BiDi Transceiver?--ETU-LINK

When planning a fiber optic network, one key decision is choosing between single-fiber (BiDi) and dual-fiber optical transceivers. This guide from ETU-Link explains

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

Specifying High-Density MPO/MTP® Patch Cords for 400G/800G

Forcing an APC patch cord into a UPC port will destroy both components. Mistake 2: Using Base-12 Patch Cords for Base-8 Optics. Connecting an 8-fiber 400G transceiver with a 12-fiber

Amazon : Fiber To Ethernet Converter

A Pair of Gigabit Single Mode LC Fiber Media Converter, with 2 Pcs SFP LX Modules, 1.25G/s Fiber to Ethernet Converter, 1000Base-LX to 10/100/1000base-TX, SFP to RJ45, SMF, 1310nm, up to 20km

SFP & SFP+ Transceiver Modules | 1G, 10G, 25G, 40G

Explore Lantronix's full lineup of Duplex SFP transceivers — MSA-compliant modules supporting multimode and single-mode fiber across a wide range of

Cisco SFP Modules for Gigabit Ethernet Applications

This data sheet describes the benefits, specifications, and ordering information for the Cisco SFP Modules for Gigabit Ethernet Applications.

Amazon : Single Mode Sfp

Discover high-performance single mode SFP modules for your network. Compatible with major brands like Cisco, Ubiquiti, and more.

MokerLink Gigabit SFP to RJ45 Converter with Bidi Module

What's Included: 2pcs gigabit media converter; 2pcs Single-Mode SFP transceiver; 2pcs AC/DC Power Supply; 1 x User's Manual. The

price-of-nauru-fiber-optic-transceiver-connectors

18 Companies and suppliers for price-of-nauru-fiber-optic-transceiver-connectors Find wholesalers and contact them directly Leading B2B marketplace Find companies now!

What is an Optical Transceiver? - VCELINK

This article provides an exploration of optical transceivers, covering their structure, working principles, functions, types, and applications. What are

Cisco Catalyst 3750 Series Switches Data Sheet

The Cisco Catalyst 3750 Series stacks up to nine switches as a single logical unit for a total of 468 Ethernet or PoE 10/100 ports, or 468 Ethernet

Contact Us

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