

Gigabit Single-Mode Fiber Optic Receiver



AI Overview

Single-mode gigabit fiber optic receivers are devices that enable high-speed, long-distance data transmission over single-mode fiber networks, often using SFP transceivers for plug-and-play connectivity.

Overview Single-mode gigabit fiber optic receivers are designed to receive optical signals transmitted over single-mode fiber, which has a small core diameter allowing for minimal signal loss and long-distance communication. These receivers are commonly used in enterprise networks, data centers, and telecom infrastructures where reliable high-speed connectivity is required.

Key Features

- Speed:** Typically support 1 Gbit/s data rates, suitable for gigabit Ethernet networks.
- Distance:** Can handle long-distance transmission, ranging from 10 km up to 180 km, depending on the model and wavelength.
- Form Factor:** Most receivers are available in SFP (Small Form-factor Pluggable) modules, which are hot-pluggable and compatible with a wide range of network switches and routers.
- Connector Types:** Commonly use LC Duplex or LC Simplex connectors, ensuring compatibility with standard single-mode fiber cables.
- Compatibility:** Many modules are vendor-neutral and MSA-compliant, allowing integration with Cisco, Intellinet, and other SFP-enabled devices.

Advantages

- Long-Distance Performance:** Ideal for connecting distant network equipment without signal degradation.
- Hot-Pluggable:** Can be installed or replaced without powering down network devices, minimizing downtime.
- Durability:** Metal housing in some modules reduces electromagnetic interference and enhances reliability.
- Versatility:** Suitable for various applications, including FTTH, corporate networks, and data center interconnects.

Applications

- Data Centers:** High-speed connections between servers, switches, and storage devices.
- Telecommunications:** Long-haul fiber links for ISPs and telecom providers.
- Enterprise Networks:** Reliable backbone connections for large office buildings or campuses.
- FTTH (Fiber to the Home):** Delivering high-speed internet to r...

Article Content

Fiber Extender

ServSwitch Dual DVI Single-Mode Fiber Optic KVM Extender, USB For computers with dual video heads, extend signals over single-mode fiber. \$5,830.88

Glasfaser auf Ethernet Adapter | Preisvergleich bei idealo

191 Angebote zu Glasfaser auf Ethernet Adapter im Transceiver & Konverter Preisvergleich. Bei idealo günstige Preise für Glasfaser auf Ethernet Adapter vergleichen.

Gigabit Fiber SFP Optical Transceiver Module

The transceiver is available as a mini-GBIC form factor, making it ideal for environments that require many fiber connections by taking up less space in your

Cisco MGE SFP Modules Cisco Small Business

The transceivers are available for single-mode or multimode fiber-optic cabling and can support distances from 100 meters up to 40 kilometers.

Markertek: Video Cameras, Intercom, Wireless Mics, Cable, Connector

Essential Tech Gear for Broadcast Quality Video Productions Markertek, an employee-owned company, provides tech gear for video production, audio recording, and media entertainment professionals -

DS-3D501R-A

It provides one 10/100/1000 Mbps self-adaptive RJ45 port and one 1000 Mbps SC fiber optical port, and can achieve high-speed and lossless transmission of data signals over a maximum of 20 km

Multidyne VERSA/BRIX V4-3811-2LX0-A-ST 2 Ch 3G-SDI Video Portable Fiber ...

In just 1RU, you can transport up to 18x SDI signals up to 3Gbps without compression over one single-mode fiber. The VB-3811 features LED's to indicate signal presence and optical link status. When

Amazon : Fiber Optic Transmitter And Receiver

3G/HD-SDI Fiber Optic Converter and Extender Kit – Compact SFP-Sized SDI to LC Transmitter & Receiver Over Single Mode & Multimode LC, USB-C Powered 20 km (12.43mi) SM / 1 km MM, DIN

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.

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

Single-Fiber BiDi SFP Explained 1000BASE-BX is a bidirectional Gigabit Ethernet SFP type designed to transmit and receive over one strand of single mode fiber. Unlike standard duplex

VIAVI Solutions | Network Test, Monitoring, and Assurance

Our test, monitoring, assurance, and resilient position, navigation and timing solutions enable and secure critical infrastructure ranging from data center

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

Approved Networks Juniper SFP Module

DETAILS With 1000Base-CWDM technology, get up to 1000Mbps data transfer rate using coarse wavelength-division multiplexing Gigabit Ethernet port for ultra-fast network speeds Optical fiber

Single-Mode Gigabit Fiber Transceiver SFP/Mini-GBIC

Cisco GLC-LH-SMD Compatible SFP Module - 1000BASE-LH - 1GbE Single Mode Fiber SMF Optic Transceiver - 1GE Gigabit Ethernet SFP - LC 20km - 1310nm -

Versitron/Rugged-Hardened-Gigabit-Fiber-Converter-for-Secure

Versitron develops industrial Gigabit fiber networking solutions engineered for mission-critical communication environments. Our industrial media converters provide secure, high-performance

Cisco MGE SFP Modules Cisco Small Business Network Accessories

Product overview Cisco® MGE Small Form-Factor Pluggable (SFP) or mini Gigabit Interface Converter (mini-GBIC) transceivers are easy-to-install modules that provide a simple way to add fiber

Calculating Fiber Optic Loss Budgets

Power Budgets And Loss Budgets The terms "power budget" and "loss budget" are often confused. The power budget refers to the amount of fiber optic cable plant

SFP Transceiver

Utilizing LC connectors and operating at a 1310nm wavelength, it enables high-speed data transmission over single-mode fiber for distances up to 10 kilometers. This module provides a reliable long-reach

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

Finisar FTLF1318P3BTL | 1G LR Universal SFP

Finisar 1G SFP LR Universal Transceiver, 1310nm, -40 to 85°C, LC-Duplex, Singlemode, 10km, Multi-Vendor.

1 Gigabit Singlemode SFP Fiber Optic Transceivers

1 Gigabit Singlemode SFP Transceivers Our 1 Gigabit Singlemode SFP Transceivers offer high-performance, reliable connectivity for singlemode fiber

Fibre Channel

Fibre Channel typically runs on optical fiber cables within and between data centers, but can also run on copper cabling. Supported data rates include 1, 2, 4, 8,

1G SFP LX 1310nm 20km Single mode Transceiver

Featuring a built-in Semtec chip and reliable FP laser / PIN receiver, the SFP module delivers low power consumption and stable optical links for 1G single

Amazon : Fiber Optic Transmitter And Receiver

A Pair of 1.25G/s Bidi Gigabit Single-Mode Fiber Ethernet Media Converter with 2PCS Bidi SFP LC Transceiver Module Included, 10/100/1000Base-Tx to 1000Base-SX SMF RJ45 to SFP Slot up to 30KM

10/100/1000 Mbps Gigabit Single-Mode Fiber Ethernet

Description F-GET-TR Universal 10/100/1000 Mbps Fast and Gigabit Ethernet Fiber Optic Transmitter / Receiver The Thor Fiber F-GET-TR media converters were

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

Contact Us

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