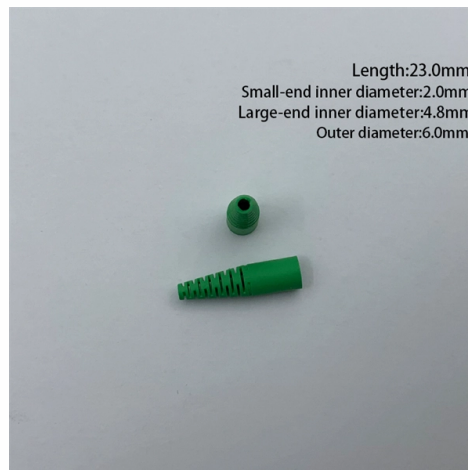


Single-mode gigabit fiber optic receiver



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

What is Optical Transceiver: A Beginner Guide (2024)

What is an Optical Transceiver? An optical transceiver, also known as a fiber optic transceiver or optical module, is a small packaged device that

Cisco 10GBASE SFP+ Modules Data Sheet

When shorter distances of single-mode fiber are used (<40km), an inline optical attenuator must be used to avoid overloading and damaging the

10-1755-01 SFP Singlemode Fiber Module Gigabit FC2 2.125G

Fiber Optic Receivers 10-1755-01 Gigabit FC2 2.125G 1310NM 2KM Single-Mode SFP Fiber Module LC Dual Interface Unit weight: 0.05 kg

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

Fiber Optic Cables – Transmitting Mediums at high speed

Fiber optic cables are cables that are made up of tiny glass or plastic fibers. These fibers are extremely thin, allowing them to transmit data over long distances using light signals. They are

2KM 10/100 Base Fiber Optic Media Converter SC Duplex MM Multi

2KM 10/100 Base Fiber Optic Media Converter SC Duplex MM Multi Mode 10/100Mbps Transmitter Receiver FTTH in Piece No reviews yet \$695 Minimum order quantity: 1 piece

10G BiDi SFP+ TX1550nm/RX1490nm 70KM LC Optical Transceiver

This high-performance bidirectional SFP+ transceiver delivers 10Gbps connectivity over 70km single-mode fiber using 1490nm/1550nm wavelength division multiplexing (WDM) technology. Designed for

10G BiDi SFP+ 20km Tx1270/Rx1330

10GBASE-BX20 10G BiDi SFP+, 20km single fiber, Tx1270/Rx1330nm, 9dB budget, DOM. Matched-pair module. EU stock + lifetime warranty. €16.33.

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

The Multidyne V4-3811-0X2L-B-ST is part of the versatile LightBrix line of compact, rugged fiber transport products designed for OB operators and anyone who needs to trunk multiple

7 Best Fiber Optic ONT | Don't Buy Until You Read This

Sifting through dozens of options to find stable, plug-and-play hardware that actually delivers on its rated distance and speed leads directly to a shortlist of proven units — the best fiber optic ont -class

Finisar FTLF1318P3BTL | 1G LR Universal SFP

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

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

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

DS-3D501T-A 20KM Gigabit Fiber Transceiver

20KM Gigabit Fiber Transceiver DS-3D501T-A is a gigabit single-mode single-fiber fiber optical transceiver developed by Hikvision. It provides one 10/100/1000 Mbps self-adaptive RJ45 port and

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.

Tp-link optical module is the real king! 20km gigabit single-mode sfp ...

It's not the equipment that's faulty; it's the "no-name module" you're using. it can't even handle a -27dbm receive threshold! the tp-link tl-sm312ls-20km, on the other hand, boasts a factory

Amazon : Single Mode Sfp

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

F-SFP1G-SM

1GBASE-LX/LH SFP 1310NM 20KM DOM TRANSCEIVER — SINGLE MODE FIBER - 1EA
The F-SFP1G-SM single-mode transceivers are small form factor pluggable modules for bi-directional serial

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

Glossary of fiber optic network terms

Glossary of fiber optic network terms Suggest a term We're always adding new fiber optic network terms to our list. If you can't find what you're looking for, get in

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

Hilink Optics QSFP QSPDD OSFP 10G SFP

If you have any questions about Hilink Optics CWDM DWDM QSFP QSPDD OSFP 10G SFP transceivers, we will give the professional solutions to you.

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

Fiber Optic Equipment

Explore our Fiber Optic Equipment collection, featuring main products like PoE Switch, Network Switch, and 30+ more items from Shenzhen Sunsoont Technology Co., Ltd. on Alibaba .

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

Cisco SFP Modules for Gigabit Ethernet Applications

The SFP provides an optical link budget of 21 dB, but the precise link span length depends on multiple factors such as fiber quality, number of splices,

Contact Us

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