

Single-module gigabit fiber optic transceiver



AI Overview

A Gigabit Single Module Fiber Optic Transceiver is a compact device that enables high-speed data transmission over fiber optic cables, typically supporting Gigabit Ethernet standards.

Definition and Functionality A Gigabit Single Module Fiber Optic Transceiver, often referred to as a Gigabit SFP (Small Form-factor Pluggable) module, is an essential component in networking that converts electrical signals into optical signals and vice versa. This conversion allows for the transmission of data over fiber optic cables, facilitating high-speed communication in various networking environments.

Key Features

- Hot-Swappable:** These transceivers can be replaced without shutting down the system, ensuring minimal downtime and easy upgrades.
- Compatibility:** They are designed to work with a variety of networking devices, including switches and routers, and can support different types of fiber, such as single-mode and multi-mode.
- Distance Support:** Depending on the model, Gigabit SFP modules can support distances ranging from a few hundred meters (for multi-mode fiber) to several kilometers (for single-mode fiber).
- Flexibility:** Users can choose from various types of transceivers (e.g., 1000BASE-SX for short distances and 1000BASE-LX for longer distances) based on their specific networking needs.

Applications

- Data Centers:** Used for connecting servers and switches within data centers, enabling high-speed data transfer.
- Telecommunications:** Essential for long-distance communication links, such as those used in metropolitan area networks (MANs) and wide area networks (WANs).
- Enterprise Networks:** Facilitates connections between different buildings or floors within an organization, ensuring reliable and fast data communication.

Conclusion Gigabit Single Module Fiber Optic Transceivers are crucial for modern networking, providing the necessary infrastructure for high-speed data t...

Article Content

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

14-slot dual-power fiber rack ✕ Hikvision/ruijie/tp full ...

Optical Fiber Transceiver Rack Suitable for Chassis Frame 14 Slots 16 Mercury Gigabit Transceivers Suitable for Chassis Dual Power Supply Tplink Hikvision Ruijie 100m ¥ 50.00

K6097: Specifications of the Fiber Gigabit Ethernet SFP, XFP, SFP+ ...

Topic The following specifications are for the available Fiber Gigabit Ethernet modules and the platforms that support those modules. Important: The end user must ensure suitability of

StarTech Cisco GLC-LH-SMD Compatible SFP Module

StarTech Cisco GLC-LH-SMD Compatible SFP Module - 1000BASE-LX/LH - 1GbE Single Mode Fiber Optic Transceiver - 1GbE SFP - LC 10km - 1310nm - DDM Cisco Firepower, ASR920, IE2000

Arista Optics Modules and Cables

SFP+ Optical interoperability with 10GbE XFP, X2 and XENPAK pluggable form factors QSFP+ Universal transceiver for 40G operations over duplex multi-mode and single-mode fiber.

Cisco 10GBASE SFP+ Modules Data Sheet

The Cisco® 10GBASE SFP+ modules (Figure 1) give you a wide variety of 10 Gigabit Ethernet connectivity options for data center, enterprise

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.

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 their differences,advantages,and how to

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

Cisco SFP Modules for Gigabit Ethernet Applications

The 1000BASE-ZX SFP operates on standard single-mode fiber-optic link spans of up to approximately 70 km in length. The SFP provides an optical link budget of 21 dB, but the precise link span length

Gigabit single-mode single-core fiber optic module

The general parameters and basic knowledge of Gigabit optical transceivers are difficult to master. The following will introduce the general parameters of the optical module and the basic

Gigabit SFP Transceiver 1.25G SMF 20km LC Single Fiber BiDi SFP Optical ...

Product Description This 1.25G BiDi SFP optical module is a hot-pluggable transceiver designed for single-mode single-fiber communication. It adopts a single LC port to transmit and receive signals

10G BiDi SFP+ 20km Transceiver (Tx1270Rx1330)

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

SFP Optical Transceiver | SFP Optical Module | Perle

Perle SFP Optical Transceivers are hot-swappable, compact media connectors that provide instant fiber connectivity for your networking gear. They are a cost

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

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

1000BASE-SX, 1000BASE-LX, 1000BASE-EX, 1000BASE-ZX and 1000BASE-BX are all Gigabit Ethernet fiber optic module terms, but they are not the same type of link. They differ in fiber

XGSPON ONU SFP+ 1270nm-TX/1577nm-RX 9.953G-TX/9.953G-RX

Overview The XGS-SFP-ONT-MAC-I is a high-performance optical transceiver module designed for 10-Gigabit-capable passive optical network (XGS-PON) deployments. It functions as an integrated

Gigabit Fiber SFP Optical Transceiver Module

Learn what a gigabit SFP module is, how it works, main types, key specifications, and common use cases to choose the right 1G SFP for your network.

Network Transceiver Modules

Buy Network Transceiver Modules from top brands like C2G, Black Box, Facilis and HPE Aruba Networking. Go to B& H for amazing prices and service.

Single-Mode Gigabit Fiber Transceiver SFP/Mini-GBIC

THE IT PRO'S CHOICE: Designed and built for IT Professionals, this SFP module is backed for life (lifetime of module, not network switch), including free lifetime 24/5

Optical Transceiver: SFP vs SFP+ vs QSFP28 vs QSFP-DD

This article provides a comprehensive comparison of mainstream optical transceivers, including SFP, SFP+, QSFP+, QSFP28, and QSFP-DD. It explains their technical differences,

StarTech MSA Uncoded SFP Module

StarTech MSA Uncoded Compatible SFP Module - 1000BASE-LX - 1GbE Single Mode Fiber (SMF) Optic Transceiver - 1GE Gigabit Ethernet SFP - LC 10km - 1310nm - DDM (SFP1000LXST)

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

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

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

Website: <https://adikor.eu>

Email: info@adikor.eu

Phone: +33 6 48 37 92 15

Address: 12 Rue de la Paix, 75002 Paris, France

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