

Gigabit Fiber Optic Transceiver Dual-Core Single-Mode



AI Overview

A Gigabit Fiber Optic Transceiver Dual-Core Single-Mode module provides 1 Gbps data transfer over single-mode fiber using dual LC fibers, supporting long-distance, reliable, and hot-swappable network connectivity.

Key Features

Data Rate and Core Type: These transceivers operate at 1 Gbps (Gigabit Ethernet) and utilize dual-core single-mode fiber, meaning one fiber strand transmits data while the other receives, enabling full-duplex communication.

Wavelength and Distance: Typical modules use a 1310nm wavelength, optimized for single-mode fiber, supporting distances from 10 km up to 180 km depending on the model and fiber quality. Some enhanced modules can reach 20 km or more for enterprise or telecom applications.

Connector Type: Most dual-core single-mode transceivers use LC duplex connectors, which are compact and widely compatible with networking equipment.

Compatibility: These modules are compatible with a variety of devices, including Cisco, D-Link, Netgear, TP-Link, Ubiquiti, and other open-switch platforms, making them versatile for network upgrades or expansions.

Hot-Swappable and Plug-and-Play: Designed for easy installation, these transceivers can be inserted or removed without powering down the network device, minimizing downtime.

Digital Diagnostic Monitoring (DDM): Many modules support real-time monitoring of optical power, temperature, and signal integrity, helping maintain network stability and quickly identify faults.

Durability: High-quality metallic or gold-plated casings ensure robust performance in harsh environments, with operating temperature ranges typically from -40°C to 85°C.

Applications

Enterprise Networks: Connecting switches, routers, and servers across buildings or campuses.

Data Centers: High-speed, low-latency links for storage and server interconnects.

Telecom Networks: Long-distance fiber links for metropolitan o...

Article Content

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

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

How To Choose The Best Fiber Optic ONT The right converter for your network comes down to matching three things: the fiber type you already own or plan to bury, the SFP transceiver

optical transceiver Manufacturer/Producer | B2B companies

52 suppliers for optical transceiver Manufacturer/Producer Find wholesalers and contact them directly B2B marketplace Find companies now!

somali-fiber-optic-switch-price-list

21 Companies and suppliers for somali-fiber-optic-switch-price-list Find wholesalers and contact them directly Leading B2B marketplace Find companies now!

optical transceiver sfp+ 10g single mode module 1310nm 10km lc

The 1310nm LC Interface 10G Singlemode Dual-fiber Optical Module is the workhorse of the modern network. It combines speed, distance, and reliability into a compact package.

10 Best Loose Tube Fiber Optic Cables (July 2026)

Discover the best loose tube fiber optic cables for outdoor runs with our 2026 guide. We tested 10 models for performance, protection and value.

A Comprehensive Look at the QSFP28-100G-ZR4 Optical Module

Introduction to the QSFP28-100G-ZR4 Module Network operators use QSFP28-100G-ZR4 optical transceiver s to deliver 100GbE connectivity across extended Single-mode fiber links with

Optic Modules Datasheet

Optic Modules Data Sheet ... SFP (form factor) = small form-factor pluggable transceiver SMF (media) = single-mode fiber-optic MMF (media) = multimode fiber-optic XFP (form factor) = 10-gigabit small

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

- Extend network connections between buildings or across long distances using single-mode fiber. - Ideal for enterprise backbones, data centers,

Cisco 10GBASE SFP+ Modules Data Sheet

Product overview The Cisco® 10GBASE SFP+ modules (Figure 1) give you a wide variety of 10 Gigabit Ethernet connectivity options for data center, enterprise wiring closet, and service provider transport

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.

10Gtek 1.25G SFP 1000Base-LX Transceiver, 1310nm SMF Fiber Optic

10Gtek is a manufacturer of transceiver, customized service is available.
Manufacturer: 10Gtek. 1000BASE-LX/LH SFP to LC Optical Gigabit Ethernet Fiber transceiver module, 1.25G

SLC-GLXS10 - 1.25Gbps SFP LX 1310nm LC Single

This dual-core small form-factor pluggable (SFP) module supports hot-swappable design and can be applied to long-distance fiber optic networks or fiber

Fiber Patch Cable

Buy Fiber Patch Cable - 10Gb/Gigabit Multi-Mode Jumper Duplex 50/125m LSZH Fiber Optic Cord for SFP Transceiver, Magenta, 15-Meter(49.2ft) with fast shipping and top-rated customer service. Once

syrian-fiber-optic-connector-manufacturer-supplies ...

16 suppliers for syrian-fiber-optic-connector-manufacturer-supplies
Manufacturer/Producer Find wholesalers and contact them directly B2B marketplace Find companies now!

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, 16, 32, 64, and 128 gigabit per second

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!

croatia+wholesale+2.5g+optical+core+routers

22 Companies and suppliers for croatia+wholesale+2.5g+optical+core+routers Find wholesalers and contact them directly Leading B2B marketplace Find companies now!

fiber to ethernet converter | Newegg

StarTech Single Mode SC Fiber Ethernet Media Converter - 1000BASE-LX Gigabit Fiber Optic to Copper Bridge - 10/100/1000 Network 10km Device Type: Converter
Standards: IEEE 802.3u

HTF DWDM equipment,OTN Solution,QSFP28 OSFP

HTFuture offers industry-leading fiber optic products and WDM system solutions with global recognition for excellence and innovation.

Gigabit Ethernet

Gigabit Ethernet was the next iteration, increasing the speed to 1000 Mbit/s. The initial standard for Gigabit Ethernet was produced by the IEEE in June 1998 as

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 ecosystems and communication networks to

somali-fiber-optic-switch-price-list Manufacturer/Producer

All suppliers for somali-fiber-optic-switch-price-list Manufacturer/Producer Find wholesalers and contact them directly B2B marketplace Find companies now!

angola-gigabit-industrial-optical-modules Manufacturer/Producer

All suppliers for angola-gigabit-industrial-optical-modules Manufacturer/Producer Find wholesalers and contact them directly B2B marketplace Find companies now!

SFP modules – transceivers for 1/2/4G fibre channel

BiDi (Bidirectional) SFP – Single-fiber SFP modules for FTTH and fiber-efficient networking, allowing both transmit and receive signals to travel over a single

Arista Optics Modules and Cables

QSFP+ Universal transceiver for 40G operations over duplex multi-mode and single-mode fiber. Interoperable with IEEE 40GbE LR4 and LRL4 for easier migrations from 10G to 40G and to single

100GBASE QSFP-100G Modules Data Sheet

The Cisco QSFP 40/100 Gb dual-rate Bi-Directional (BiDi) transceiver is a pluggable optical transceiver with a duplex LC connector

Contact Us

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

Website: <https://lwazipm.co.za>

Email: info@lwazipm.co.za

Phone: +27 82 415 6392

Address: 15 Oxford Street, Rosebank, Johannesburg, 2196, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

