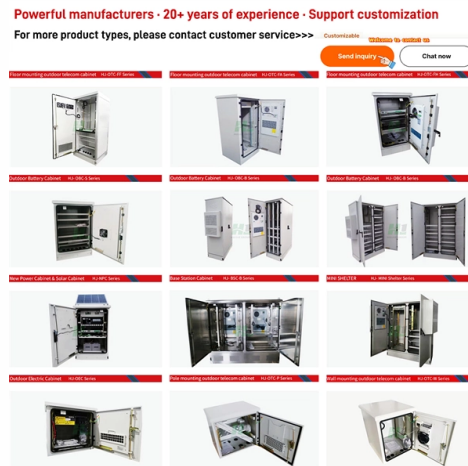


Gigabit Fiber Transceiver Dual-Port to Router



Overview

Discover fiber to ethernet converters for extending your network. Find gigabit media converters with reliable performance on Amazon.

Key Takeaways

A dual-port Gigabit fiber transceiver allows you to connect fiber optic links to a router via two RJ45 Ethernet ports, supporting 10/100/1000 Mbps speeds with hot-swappable SFP modules.

A Gigabit SFP (Small Form-factor Pluggable) transceiver is a compact, hot-swappable module that converts electrical signals from a router or switch into optical signals for fiber links, or vice versa, enabling high-speed 1 Gbps connectivity over fiber or copper networks . Dual-port models provide two RJ45 Ethernet interfaces, allowing simultaneous connections to multiple devices or redundancy setups .

Key Features

- **Dual RJ45 Ports:** Supports 10/100/1000 Mbps auto-negotiation and Auto MDI/MDIX, enabling seamless connection to routers or switches .
- **SFP Slot:** Accepts standard 100/1000Base-X SFP modules, including single-mode or multimode fiber, allowing flexible deployment .
- **Hot-Swappable:** Modules can be replaced without powering down the device, minimizing downtime .

- Distance Support: Depending on the SFP module, fiber links can range from hundreds of meters (multimode) to tens of kilometers (single-mode) over a single or dual fiber strand .
- Management and Monitoring: Many SFPs support Digital Optical Monitoring (DOM) to track optical power, temperature, and voltage in real time .
- Compatibility: Works with standard routers, switches, and other network devices that support SFP or copper Ethernet ports .

Deployment Scenarios

- Extending Network Links: Connect a router in one building to a switch in another via fiber, using the dual-port transceiver to provide two Ethernet connections.
- Redundancy: Use both ports for failover or load balancing.
- Mixed Media Networks: Integrate fiber backbones with copper-based devices without replacing existing infrastructure.
- RF-Shielded Environments: Ideal for IP phones or sensitive equipment where copper cabling is restricted, as fiber is immune to electromagnetic interference .

Example Devices

- LFC-1002-SFP: Two RJ45 ports to a single SFP slot, unmanaged, supports VLAN, Jumbo frames, and auto-negotiation for 10/100/1000 Mbps .
- Thor F-GET-TR-SFP: Ethernet over fiber transceiver with open SFP slot, supports single-fiber WDM modules up to 20 km, suitable for IP phones or network extension .

Installation Tips

- Insert the SFP module into the transceiver slot.
- Connect fiber cables to the SFP module and the corresponding transceiver at the other end.
- Connect the dual RJ45 ports to your router or switch.
- Configure any VLAN, speed, or duplex settings if supported.
- Verify link status using LED indicators or network monitoring tools. Using a dual-port Gigabit fiber transceiver provides flexible, high-speed connectivity between fiber networks and routers, supporting both enterprise and specialized applications like RF-shielded rooms or long-distance network extensions .

Article Content

Amazon : Fiber To Ethernet Converter

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Cisco Transceiver Modules

Cisco Transceiver Modules - Learn product details such as features and benefits, as well as hardware and software specifications.

Dual Fiber

Regular SFP optical transceivers use two fiber strands to operate. This category includes all types of SFPs using two strands: one for

Dual RJ45 Multimode LC Gigabit Fiber to Ethernet Media ...

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MikroTik · SFP/QSFP

A pair of 1G/2.5G BiDi SFP modules designed for reliable single-mode connectivity while using only one fiber strand – up to 20 km.

TP-Link MC220L, Gigabit SFP to RJ45 Fiber Media Converter

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