

Fiber Optic LAN Router



Summary of Content

A fiber optic router LAN interface allows devices on a local network to connect via Ethernet while the router receives high-speed data from a fiber optic connection.

Overview

Fiber optic routers typically receive internet through an Optical Network Terminal (ONT), which converts light signals from the fiber line into electrical signals that the router can process. The LAN interface on the router is usually an Ethernet port (RJ45), which distributes the connection to computers, switches, or other network devices within the local area network. Some routers also support SFP or SFP+ ports, allowing direct fiber connections or modular upgrades for higher speeds.

LAN Interface Types

- **RJ45 Ethernet Ports:** Standard LAN ports for connecting devices using Cat5e, Cat6, or Cat6a cables. These ports typically support speeds from 1 Gbps up to 10 Gbps depending on the router.
- **SFP/SFP+ Ports:** Small Form-Factor Pluggable modules allow fiber or copper connections. They are hot-pluggable and can support long-distance fiber links, ideal for connecting switches or extending networks over kilometers.
- **QSFP Ports:** Found on high-end routers or switches, these support multiple fiber channels for very high bandwidth applications.

Connecting Fiber to LAN

- **Fiber to ONT:** The fiber optic cable from your ISP connects to the ONT, which converts optical signals to electrical signals.

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TP-Link Tri-Band BE9700 WiFi 7 Router (Archer BE600) - 10G Port, 2.5G Port, 3x 2.5G LAN, 320MHz Channel, Covers up to 2,600

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