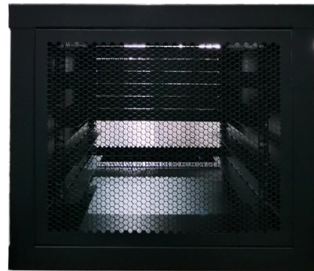


Telecom Fiber Optic Routers and Switches



Article Overview

Fiber optic routers and switches are essential devices that manage data flow in fiber networks, with routers directing traffic between networks and switches connecting multiple devices within the same network.

Key Devices in Fiber Networks

ONU (Optical Network Unit): The ONU is the endpoint device in a fiber-to-the-home (FTTH) network, connecting directly to the optical line terminal (OLT) at the central office. It converts optical signals into usable data for other devices and operates at Layer 1 and Layer 2 (physical and data link layers) within passive optical network (PON) infrastructure . **Router:** Routers are Layer 3 devices that manage data packets between different IP networks. In fiber networks, routers handle traffic routing, network address translation, and access to external networks. Fiber-compatible routers may include integrated fiber modems or SFP modules for direct fiber connections . **Switch:** Switches operate primarily at Layer 2, forwarding data within a local area network (LAN) based on MAC addresses. Some switches also support Layer 3 routing. They are crucial in enterprise networks for connecting multiple devices, managing high device density, and ensuring efficient internal data flow .

Optical Switches

Optical switches differ from traditional electrical switches by manipulating light paths instead of electrical currents. They are used in data centers and telecom networks t...

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Telekom Fibre Optic Modem 2 Box contents: fibre optic modem and power supply, wall mount with roll-up option for the Gf cable,

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Fiber-optic cable

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