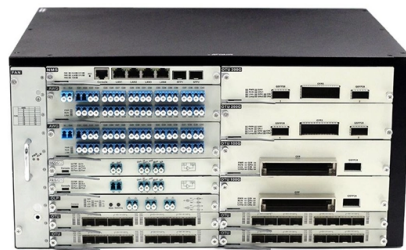


Is the device connected to the fiber optic cable a router



Article Overview

No, the device directly connected to a fiber optic cable is usually an Optical Network Terminal (ONT), not a router.

In a fiber internet setup, the fiber optic cable connects to an ONT, which converts the light signals from the fiber network into electrical signals that your home or office network can use. The ONT functions similarly to a modem in traditional broadband setups but is specific to fiber connections. It does not manage network traffic or provide Wi-Fi; its main role is signal conversion and delivery to a router. A router, including a fiber router, is a separate device that connects to the ONT via Ethernet. The router then distributes the internet connection to multiple devices, either through wired connections or Wi-Fi, and manages network traffic, security, and device communication. Fiber routers are specifically designed to handle the high speeds and low latency of fiber internet, often including advanced features like Quality of Service (QoS) and integrated Wi-Fi. Some ISPs provide a combined device that integrates both the ONT and router functions, but in most setups, the fiber optic cable itself does not connect directly to a router. Instead, the ONT acts as the intermediary, ensuring the fiber signal is usable for your network. In summary, while a router is essential for distributing internet to your devices, the device with the fiber optic cable is typically an ONT, and a router connects to it to provide network access throughout your home or office.

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The fiber-optic cable connecting the ONT to the entry point is glass, so it doesn't bend like copper cable. Moving the

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Router (computing)

A router is a computer and networking device that forwards data packets between computer networks, including internetworks

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Fiber vs. Cable Internet: Pictured here are a Cable Modem (top) and a Fiber-optic ONT in action. The Cable modem

Contact Us

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