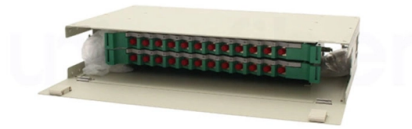


Router Fiber to the Home Information Box



AI Overview

A Fiber to the Home (FTTH) router connects directly to your fiber optic line, often via an ONT or integrated SFP module, to provide high-speed internet throughout your home.

Key Components for FTTH Setup

- Optical Network Terminal (ONT):** Converts the fiber optic light signals into electrical data for your router. Some routers, like the FRITZ!Box 5590 Fiber, have an integrated ONT, eliminating the need for a separate device.
- Fiber Optic Cable:** Typically a thin, yellow cable with SC/APC or SC/UPC connectors that runs from the wall outlet to the ONT or router.
- Router:** Distributes internet to devices via Ethernet or Wi-Fi. Routers must support fiber input, often through an SFP or WAN port labeled "Fiber" or "ONT".
- Ethernet Cable:** Connects the ONT to the router if they are separate devices.

Installation Steps

- Locate the Fiber Outlet:** Identify the wall-mounted fiber connection provided by your ISP.
- Connect the Fiber Cable:** Plug the fiber cable into the ONT or directly into a router with an integrated fiber modem.
- Insert SFP Module if Required:** For routers like the FRITZ!Box 5590 Fiber, insert the appropriate SFP module (AON for active or GPON for passive connections) into the fiber port.
- Power On Devices:** Turn on the ONT (if separate) and the router, waiting for status lights to stabilize.
- Configure Router:** Access the router's admin panel via a browser (e.g., 192.168.178.1) and enter ISP credentials if required.

Recommended Routers

- FRITZ!Box 5590 Fiber:** Integrated fiber modem, supports both active (AON) and passive (GPON) connections, ideal for high-speed FTTH setups.
- FRITZ!Box 5690 Pro:** High-performance Wi-Fi and multiple ports for large homes.
- FRITZ!Box 5530 Fiber:** Suitable for smaller areas with moderate Wi-Fi coverage.

Tips for Optimal Performance

- Central Placement:** Position the router centrally to maximize Wi-Fi coverage.
- Use Dual-Band Wi-Fi:** Routers with 2.4 GHz and 5 GHz bands provide...

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ONT Meaning: What Is an Optical Network Terminal?

Without an ONT, a Fiber-to-the-Home (FTTH) Internet connection cannot communicate with your router, computers, gaming consoles, streaming devices,

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