

Fiber Optic Direct Connection Router



Article Overview

A fiber optic direct-connect router is a specialized router that connects directly to a fiber optic line without needing a separate modem, combining the functions of a modem and router in one device.

What It Is

A fiber optic direct-connect router is designed to interface directly with a fiber optic internet connection. Unlike traditional routers that require an Optical Network Terminal (ONT) or fiber modem, these routers have an integrated fiber modem, allowing them to connect straight to the fiber socket. This setup simplifies installation, reduces cable clutter, and ensures that the full speed of the fiber connection is delivered to your home network .

Key Features

- **Integrated Fiber Modem:** Eliminates the need for a separate ONT device.
- **High-Speed Support:** Compatible with GPON, AON, or XGS-PON fiber standards.
- **Wi-Fi Capabilities:** Often includes Wi-Fi 6 or Wi-Fi 6E for ultra-fast wireless performance.
- **All-in-One Functionality:** Combines routing, switching, and sometimes telephony features in a single device .

Setup Overview

- **Direct Connection:** Plug the fiber optic cable into the router's fiber port (SFP or dedicated fiber input)....

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A fibre optic router is especially designed for operation directly on a fibre optic connection. In contrast to a router that is operated

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