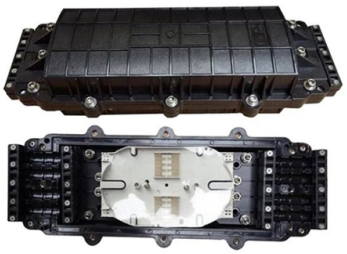
# ZITHA TECH SPECIALTY CABLES (Pty) Ltd

# The router is installed on the fiber optic panel



## Overview

The fiber optic cable does not plug directly into a standard home router because the signal type must be translated.

## Key Takeaways

The router does not connect directly to the fiber optic panel; it connects to an Optical Network Terminal (ONT) that converts the fiber signal into Ethernet for the router.Role of the ONT

Fiber optic cables transmit data as light pulses, which standard routers cannot interpret directly. The Optical Network Terminal (ONT) acts as a bridge, converting the optical signals from the fiber into electrical signals that your router can use . The ONT is typically installed near the fiber entry point, often on a wall or in a closet, and contains an optical port for the fiber cable and an Ethernet port for the router .

Connecting the Router
• Fiber to ONT: The fiber optic cable from the panel is plugged into the ONT's optical input port. Protective caps should be removed carefully, and the connector handled by its housing to avoid damage .

• ONT to Router: Use a high-quality Ethernet cable (Cat6a or higher) to connect the ONT's Ethernet port to the router's WAN port .

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• Power and Configuration: Power on the ONT and wait for the status lights to stabilize. Then power on the router and configure it via its admin interface, typically accessed through a web browser at an IP like 192.168.1.1 .
Best Practices
• Placement: Position the ONT close to the fiber entry point to minimize signal loss .

• Router Choice: Use a fiber-ready router capable of gigabit speeds or higher to fully leverage fiber performance .

• Optimization: For critical applications, use wired connections, check firmware updates, and secure your Wi-Fi network. Mesh systems can be added for larger homes to ensure full coverage . By following these steps, the router will effectively receive high-speed internet from the fiber optic panel through the ONT, ensuring reliable connectivity and optimal performance .

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