

## Connecting a Telecom Fiber Optic Wireless Router



### Overview

Build a home fiber network for 1-2 Gbps speeds with this complete guide to installation, troubleshooting, and performance.

### Key Takeaways

To connect a fiber optic internet line to a wireless router, you must use an Optical Network Terminal (ONT) to convert the optical signal into an Ethernet signal, then link it to your router's WAN port.

- **Required Equipment**
- Optical Network Terminal (ONT): Converts fiber optic light signals into electrical signals compatible with routers, usually provided by your ISP .
- Fiber optic cable: Typically single-mode with SC/APC or SC/UPC connectors .
- Ethernet cable (Cat6a or higher): Connects the ONT to the router's WAN port .
- Fiber-ready router: Ensure it supports gigabit speeds or higher to fully utilize fiber performance .

• Power adapters: For both ONT and router.

#### Step-by-Step Connection

- Install the ONT
- Locate the fiber optic wall outlet where the ISP's fiber line enters your home or office .

- Connect the fiber optic cable to the ONT's optical input port, handling the connector carefully to avoid dirt or damage .
- Power on the ONT and wait for the status lights to stabilize, indicating a successful connection to the ISP network .
- Connect the ONT to the Router
- Use an Ethernet cable to link the ONT's LAN/Ethernet port to the router's WAN/Internet port .
- Power on the router and wait for the indicator lights to confirm connectivity.
- Router Configuration
- Access the router's admin interface via a connected computer or mobile device.
- Configure network settings as needed (SSID, password, security protocols).
- Update firmware if necessary to ensure optimal performance and security .

#### Placement and Environmental Considerations

- Place both ONT and router near electrical outlets and in a dry, ventilated area .
- Avoid locations with extreme temperatures or moisture.
- Use a surge protector to safeguard equipment.

#### Verification and Troubleshooting

- Check ONT lights: Power should be solid green, and the data/Internet light should indicate active connection .
- Test internet speed and Wi-Fi coverage to ensure proper setup.
- If connectivity issues arise, verify fiber cable seating, Ethernet connections, and router configuration. By following these steps, you can establish a high-speed, reliable fiber optic internet connection through your wireless router, enabling seamless streaming, gaming, and data-intensive applications .

## Article Content

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Any wired or wireless router will work with TDS fiber service. We recommend using a Wi-Fi6 capable wireless router so that you can

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