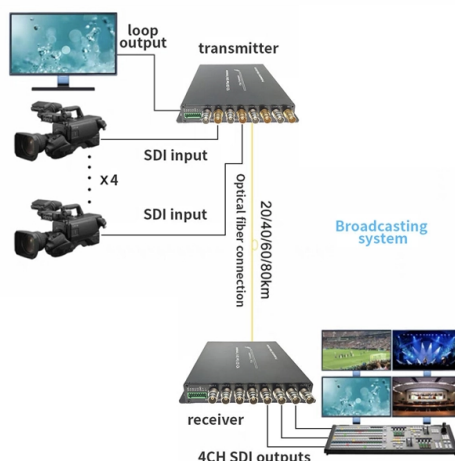


# RIVO MULTITRADE OPTICAL SYSTEMS

## How does a router connect to fiber optic cable



### Overview

How to Connect Fiber Optic Cable to Router: A Step-by However, setting up a fiber optic connection to your router can seem daunting if you're How to Connec.

### Key Takeaways

To connect a router to a fiber optic cable, you need an Optical Network Terminal (ONT) to convert the fiber signal into an Ethernet signal, which then connects to your router via an Ethernet cable. Required Equipment

- Optical Network Terminal (ONT): Converts the incoming optical signal from the fiber into an electrical signal your router can use .
- Fiber optic cable: Usually provided by your ISP, with connectors like SC/APC or SC/UPC .
- Router: Ensure it has a WAN or SFP port compatible with the ONT .
- Ethernet cable (Cat5e or higher): Connects the ONT to the router .

Step-by-Step Connection Process

- Install the ONT:
- Locate the fiber optic wall outlet installed by your ISP.
- Connect the fiber optic cable from the wall outlet to the ONT's designated optical port.

- Power on the ONT and wait for the status lights to stabilize, which may take a few minutes .
- Connect the ONT to the Router:
  - Use an Ethernet cable to connect the ONT's LAN/Ethernet port to the router's WAN port.
- Power on the router and wait for the indicator lights to confirm a successful connection .
- Configure the Router (if needed):
  - Access the router's configuration interface via a web browser (commonly 192.168.0.1 or 192.168.1.1).
- Set up any necessary settings such as Quality of Service (QoS) for VoIP or video calls .

#### Safety and Performance Tips

- Handle fiber connectors carefully; avoid touching the glass tip to prevent damage or signal loss .
- Position the ONT and router in a dry, ventilated area near power outlets, ideally with surge protection .
- Ensure the Ethernet cable is high-quality (Cat6a or higher) to maintain optimal speeds . By following these steps, your fiber optic internet connection will be properly converted and routed through your home network, allowing you to fully utilize the high-speed capabilities of fiber technology .

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The router may require a few minutes to set up the new connection. 7. Verify the connection: To make sure everything

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