

RIVO MULTITRADE OPTICAL SYSTEMS

How to connect an ONT terminal to an optical network



Overview

How to Set Up an ONT?

| Fiber Optic Networking – SivoSetting up an ONT (Optical Network Terminal) involves physically installing the device and connecting.

Key Takeaways

An ONT connects your premises to a fiber-optic network by converting optical signals into electrical signals, which are then distributed to your devices via Ethernet or other interfaces. Understanding the ONT

An Optical Network Terminal (ONT) is the endpoint device in a fiber-optic network, typically installed at your home or business by your Internet Service Provider (ISP). Its main function is to receive optical signals from the provider's Optical Line Terminal (OLT) and convert them into electrical signals usable by devices like routers, computers, IP phones, and smart TVs . Some ONTs also include additional features such as Wi-Fi, VoIP ports, or CATV outputs .

Step-by-Step Connection Process

- Connect the Fiber Cable: Insert the optical fiber from the ISP into the ONT's optical port. Ensure the connector is clean to prevent signal loss .



- **Power Up the ONT:** Plug the ONT into an AC outlet using the provided power adapter. If your ONT has a Battery Backup Unit (BBU), ensure it is properly connected to maintain service during power outages .
 - **Link to a Router or Devices:** Use an Ethernet cable to connect the ONT's LAN port to the WAN port of your router. For direct device connections, you can plug a computer or other device into the ONT's Ethernet port, though this limits the number of connected devices .
 - **Activate via ISP:** Some ISPs require activation using a serial number, barcode scan, or auto-discovery mechanism. Follow your ISP's instructions to complete this step .
 - **Check LED Indicators:** Verify the ONT's status lights for Power, PON, LOS, LAN, and Wi-Fi (if applicable). These LEDs indicate proper operation and signal reception . Common issues include blinking LOS (fiber cut or disconnection) or no LAN signal (check cables or reboot devices).
- Best Practices
- **Proper Ventilation:** Keep the ONT in a well-ventilated area to prevent overheating .
 - **Dust Protection:** Use dust caps on optical ports when unplugged to avoid contamination .
 - **ISP Guidance:** Since the ONT is typically ISP property, any modifications or direct connections should be done under ISP guidance to avoid service disruption . By following these steps, your ONT will effectively bridge the optical network and your internal devices, ensuring high-speed, low-latency internet access.

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Ports you will find on your ONT Below we show two basic ONT types, but layout and colour of ports will vary depending on your

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References Monolithic Power—Optical Network Terminal (ONT) Units TXO—What is an Optical Network Terminal? Allconnect—Why

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