

How to match the router with the fiber optic cable



Article Overview

You cannot connect a fiber optic cable directly to a standard router; you need an Optical Network Terminal (ONT) to convert the optical signal into an electrical signal that your router can use.

Required Equipment

- Optical Network Terminal (ONT): Converts incoming light signals from the fiber into electrical signals compatible with your router. Usually provided by your ISP .
- Fiber-Ready Router: Ensure your router supports fiber input via a WAN port or SFP module. High-speed routers (Gigabit or higher) maximize fiber performance .
- Fiber Optic Cable: Typically single-mode with SC/APC or SC/UPC connectors, provided by your ISP .
- Ethernet Cable: Cat6a or higher is recommended to connect the ONT to the router for optimal speeds .
- Power Supplies: For both the ONT and router.

Step-by-Step Connection

- Install the ONT: Place it near the fiber entry point in your home. Connect the fiber optic cable from the wall outlet to the ONT's optical port, handling connectors carefully to avoid dirt or damage .
- Connect ONT to Router: Use an Ethernet cable to link the ONT's LAN/Ethernet port to the router's WAN port. Ensure the router is compatible with fiber input .
- Power Up Devices: Turn on the ONT first to allow it to establish a connection with your ISP. Once the ONT is stable, power on the router

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An Optical Network Terminal (ONT) or Fiber Termination Box (FTB) is needed to bridge the fiber optic network and

Contact Us

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