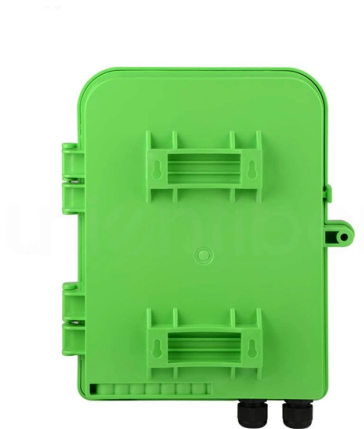


Fiber optic connection to router in the computer room



Overview

Learn about the various fiber-optic components used for running fiber in your house, office, or between buildings.

Key Takeaways

To connect a router to a fiber optic cable, you need an Optical Network Terminal (ONT) to convert the fiber signal into Ethernet, then link it to your router's WAN port.

Required Equipment

- Optical Network Terminal (ONT): Converts the incoming fiber optic signal into an electrical signal compatible with your router .
- Fiber optic cable: Typically single-mode with SC/APC or SC/UPC connectors .
- Ethernet cable: Cat6a or higher recommended for high-speed data transfer .
- Router: Ensure it has a WAN or Internet port compatible with Ethernet input .
- Power supply: For both the ONT and router.

Step-by-Step Connection

- Locate the fiber entry point: Identify where the ISP's fiber line enters the computer room. This is usually a wall outlet or patch panel .
- Connect the fiber optic cable to the ONT:
- Remove protective caps from both the fiber cable and the ONT port.

- Align the connector key and gently insert until it clicks securely .
- Handle the fiber carefully to avoid dust, dirt, or bending the cable sharply .
- Power on the ONT: Plug in 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 link the ONT's LAN/Ethernet port to the router's WAN/Internet port .
- Ensure the cable is fully seated in both ports.
- Power on the router: Wait for the router's indicator lights to confirm a successful connection .
- Configure the router:
 - Access the router's admin panel via a web browser (commonly 192.168.1.1).
 - Follow the setup wizard to configure your internet connection and Wi-Fi settings.
 - Change default usernames and passwords for security .

Placement and Safety Tips

- Place the ONT and router near power outlets and in a dry, ventilated area .
- Use surge protectors to safeguard equipment.
- Avoid bending fiber cables sharply or exposing connectors to dust . Following these steps ensures a stable, high-speed fiber connection from the ISP to your router, ready to distribute internet throughout your network.

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