# How to replace the fiber optic cable in a mobile router



## Overview

Several factors could lead to router malfunctions, and identifying the exact cause is essential before deciding whether to replace the cable.

## Key Takeaways

You cannot directly replace a mobile router with a fiber optic cable; instead, you connect fiber through an ISP-provided ONT to a compatible router.

### Understanding Fiber Optic Internet

Fiber optic internet delivers data via light signals through glass or plastic strands, offering much higher speeds, lower latency, and greater reliability than mobile LTE or 5G connections. Unlike mobile routers, fiber connections require an Optical Network Terminal (ONT), which converts the light signals into electrical signals that your router can use.

### Equipment Needed

Optical Network Terminal (ONT): Provided by your ISP; essential for converting fiber signals. You cannot replace the ONT with a standard modem. Compatible Router: Must have a Gigabit Ethernet WAN port to connect to the ONT.

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## Wi-

Fi 6 or 6E routers are recommended to fully utilize fiber speeds. Ethernet Cable: Connects the ONT to your router's WAN port. Fiber Optic Cable: Typically a thin yellow cable with SC/APC or SC/UPC connectors, running from the wall outlet to the ONT.

## Steps to Transition

## Confirm ON

T Installation: Ensure your ISP has installed and activated the ONT at your home.

## Connect Fiber to ON

T: Plug the fiber optic cable from the wall outlet into the ONT. Power on the ONT and wait for the status lights to stabilize.

## Connect Router to ON

T: Use an Ethernet cable to link the ONT's Ethernet port to your router's WAN port. Configure Router Settings: Access the router's admin panel to set up VLAN, DHCP, or PPPoE settings if required by your ISP. Test Connection: Verify internet speed and connectivity to ensure optimal performance.

## Using Your Existing Router

You can often use your current router if it has a WAN Ethernet port and supports the speeds provided by your fiber plan. However, older routers may limit performance, so upgrading to a fiber-compatible router is recommended to fully leverage fiber speeds.

## Key Considerations

Fiber internet does not use a traditional modem, so your mobile router cannot directly replace the ONT. Ensure your router supports symmetrical speeds if your fiber plan offers high upload and download rates. You are responsible for network security and troubleshooting if you use your own router.

By following these steps and ensuring compatibility, you can successfully transition from a mobile router setup to a high-speed fiber optic connection, unlocking faster, more reliable internet for your home or office.

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