

# Why can't a router be used with fiber optic cables



## Overview

Since fiber cables can't connect directly to a router, an ONT converts optic signals that can be delivered to routers through an Ethernet cable. If you have fiber optic internet service, the ONT is typically installed by your provider and is not a device that is readily available. Fiber internet transmits data using light signals through fiber-optic cables, which differs from traditional DSL or cable internet. Instead, fiber relies on an Optical Network Terminal (ONT) to decode the signal from the fiber lines into something usable by your devices. In this way, an ONT serves the same basic function as a cable. Almost all types of routers available are compatible with these coaxial cables so it is unnecessary to switch to a device that works with fiber, however, it is recommended to upgrade to one that offers higher speeds. Any standard router, including the primary unit of a mesh Wi-Fi system, will work at its full potential with any standard Internet broadband terminal.



## Article Content

### Does Fiber Internet Require Modem Equipment?

The good news: Fiber-optic internet does not require a special router in most cases. Since the ONT handles the signal conversion, you can use virtually any quality router that supports ...

### Can I use my existing router with fiber?

The question of whether you can use your existing router with fiber hinges on how your internet service provider (ISP) delivers the fiber signal to your home and the capabilities of your current router.

### Do I Need a Modem and a Router?

Fiber optic internet typically requires an Optical Network Terminal (ONT) instead of a modem. The ONT performs a similar function to a modem but is specifically designed to work with ...

### Fiber internet routers and modems vs. ONTs | Switchful

In contrast to the modem situation, any router can work with a fiber connection. That's no exaggeration, either—if it has an Ethernet port (and nearly every modern router does), you can ...

### What Is Fiber Router? | Why Would You Need One?

You can use any router with a fiber-optic Internet signal, but you could need an adapter of some kind. Plus, a fiber router truly offers some significant advantages over traditional...

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Since fiber cables can't connect directly to a router, an ONT converts optic signals that can be delivered to routers through an Ethernet cable. If you have fiber optic internet service, the ONT is typically ...

### Can I use my existing router with fiber?

While many existing routers can connect to a fiber network, there are several scenarios where upgrading your router is not just recommended, but essential to fully leverage the benefits of fiber optic internet.

### Fiber vs. Cable Internet 101: The Best Tips | Dong Knows Tech

Any standard router, including the primary unit of a mesh Wi-Fi system, will work at its full potential with any standard Internet broadband terminal device —modem, Fiber-optic ONT, or others. ...

### Do You Need a Modem for Fiber Internet? | BroadbandSearch

Old equipment won't transfer: Cable modems, DSL modems, and their routers are not compatible with fiber. Before buying any hardware for a new fiber plan, confirm what your specific ...

Can I Use My Own Router for Fiber Internet? | Mercury Broadband

Wondering if you can use your own router for fiber internet? Learn about compatibility, setup tips and what to consider before replacing your equipment.

## Contact Us

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