

## Do you still need a network cable if your router has fiber optic cable



### Overview

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. That's true as long as the two can connect via a network cable, which is almost. A fiber optic service will require an "ONT" which connects to the fiber cable, and provides an Ethernet port.

[org/wiki/Network\\_interface\\_device#Optical\\_network\\_terminals](https://en.wikipedia.org/wiki/Network_interface_device#Optical_network_terminals) Some ISP's use ONT's that have integrated routers - its easier for THEM but it gives them more control over. The answer is actually no—fiber optic equipment differs significantly from cable setups. Your ONT handles signal conversion, eliminating the need for a traditional modem altogether. Think of the ONT as a high-tech bridge between your ISP and your internal network - but engineered specifically for fiber's unique data. While the internet connection comes in via fiber optic cable, the device that manages your home network—your router—still needs to be able to communicate with the incoming signal. Outdoor Fiber Cable section, avoid any outdoor fiber-optic cable that uses a metal protective sheath to maintain electrical isolation.

## Article Content

### An Easy Guide to Replacing Your Router with a New One

If your router is more than 5 years old, has connection issues, or if you just want to improve your range and speed, it may be time to replace your old router. Don't worry—you don't need to be an IT expert to get your new router up and running. This wikiHow article teaches you how to replace your router

### How to Integrate Fiber Optic Cables Into Your Current Network

Summary : Integrating fiber optic cables into your existing network can significantly boost speed, reliability, and scalability without disrupting daily operations. Businesses can choose a hybrid

### Does Fiber Internet Need A Modem? Here's How It

While fiber internet doesn't require a modem, you still need a router to distribute the connection across your network. Your router works hand-in-hand with the ONT,

### Do WiFi Routers Always Need an Ethernet Cable?

Traditional WiFi routers always need ethernet cables to connect to a modem (usually provided by an internet service provider). So, even if all the devices on the

### Straight-through, Crossover & Rollover Cable Pinouts

When talking about cable pinouts, we often get questions as to the difference in Straight-through, Crossover, and Rollover wiring of cables and the intended use

### Fiber vs. Cable: What is the Difference? | AT& T Internet

Fiber internet offers faster speeds and is more durable with less interference. However, cable internet can still provide an excellent solution to many. This is

### Modem vs. Router: Here's the Difference (And Why It

If you've been on the internet for a while, you've no doubt heard the terms "modem" and "router" thrown around, but you might not have taken the

## Contact Us

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