

Setting up multiple routers using fiber optic interfaces



Article Overview

You can connect multiple routers to a single fiber optic line by using a primary router as the gateway and configuring secondary routers in bridge or access point mode, or by using a switch with multiple public IPs for independent routers.

Understanding the Basics

Fiber optic internet uses an Optical Network Terminal (ONT) to convert light signals into Ethernet for your routers. Typically, ISPs provide a single ONT or a combined gateway device. Connecting multiple routers directly to the ONT is uncommon for residential setups, as most ISPs assign only one public IP per connection. Therefore, the common approaches involve either extending the network or obtaining multiple public IPs.

Method 1: Primary Router with Secondary Router (Access Point or Bridge Mode)

- Connect the ONT to the WAN port of the primary router and configure it with your ISP settings.
- Connect the secondary router to a LAN port of the primary router using an Ethernet cable.
- Configure the secondary router:
 - Set it to Access Point (AP) mode or Bridge Mode to avoid double NAT issues.
 - Assign a static IP within the primary router's subnet but outside its DHCP range (e.g., primary router 192.168.1.1, secondary 192.168.1.2),

Article Content

Two routers on a fibre optic network? : r/HomeNetworking

The junction box (pictured) has a straight connection from the fibre modem to a single Ethernet connection in one of the room A in

Using fiber optic cable to connect multiple routers (both are ...

My ISP gives me an 500mpbs FIBER optic cable connection to my home. Currently I have the connection connected to my router-A

A single fiber connection into two independent routers

So the fiber is installed. Could you please advice on how to set this up properly? I have the media converter which connects to the

A single fiber connection into two independent routers

There is no need to get extra IP, it doesn't really solve some potential issues. The easiest way to do is, terminate your ISP

Guide to Choosing and Setting Up Routers in Packet Tracer

In the follow-up article, we'll guide you through the process of connecting the switches and PCs to their respective routers using

Can I connect two routers to one fiber modem?

Learn how to connect two routers to one fiber modem for better WiFi coverage. Discover setup steps, potential issues, and network

Contact Us

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