

Using a gigabit router with a 50Mbps fiber optic connection from China Telecom



Article Overview

You can use a gigabit router with China Telecom's fiber connection, but proper configuration and compatible hardware are essential to achieve full gigabit speeds.

Router and Connection Requirements

To fully utilize a gigabit fiber connection, your router must support gigabit WAN and LAN ports and ideally WiFi 6 or WiFi 7 for wireless devices . For wired connections, use Cat6 Ethernet cables to maintain speeds up to 1 Gbps over 50 meters; older Cat5 cables may limit throughput .

Connection Types

China Telecom fiber typically uses PPPoE for authentication, requiring a username and password provided by the ISP. Some setups may also require VLAN tagging, depending on the local network configuration . If your router supports PPPoE and VLAN configuration, you can connect it directly to the ONT (Optical Network Terminal) provided by China Telecom.

Setup Steps

- Connect the ONT to your router's WAN port using a Cat6 Ethernet cable.
- Configure the WAN connection on your router....

Article Content

Anyone using an Asus router with a fiber connection?

I have been a Comcast/Xfinity internet customer for 20+ years and currently connect via my own (Arris) modem and

I only have a 1 gigabit connection and my router is 1 gigabit ...

But with a 1Gbps connection, setting 1.1Gbps might not be possible as the modems/routers can have a 1Gbps port, so there is a

Can I use my existing router with fiber?

While your current router might physically connect to the fiber network via an ONT and Ethernet cable, its capabilities

Best Router for Popular Internet Providers: A Complete

Best Router for Popular Internet Providers: A Complete Guide Popular internet service

You might get more with a desktop that has a 4x4 mimo card sitting next to the router but then you just use ethernet.

How to Connect Fiber Optic Cable to Router: A Step-by-Step Guide

However, setting up a fiber optic connection to your router can seem daunting if you're unfamiliar with the process. In

How to Connect Fiber Optic Cable to Your Router

Master the process of connecting a fiber optic cable to your router. Dive into preparation tips, setup instructions, and configuration

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

Key Takeaways: Yes, you can use your own router with fiber internet, as long as it has a

Router that supports 5Gbps wired? : r/HomeNetworking

Hi all. I've been searching around and I think I'm a bit confused. I'm going to be upgrading to 5Gbps fiber and I need a router where I

Best Router for Popular Internet Providers: A Complete Guide

This guide explores the best WiFi routers for faster speeds and better wireless performance for your whole home.

Just upgraded to a Fiber Internet connection with a 50 Mbps up

Just upgraded to a Fiber Internet connection with a 50 Mbps up/down bandwidth. What should I be looking for in a wireless router to

Router has gigabit ports but im not getting gigabit speeds

So long story short, my ISP sent me a new router with wifi 6 and gigabit ports. I've installed and configured it.

Why am I not getting the maximum speed that my router is capable of ...

To prevent your router from “bottlenecking” your network, we recommend using a router that's capable of faster speeds

Gigabit connection and router, but I only get 100 Mbps on my PC

I bought an ASUS AC55U router, which claims to have gigabit ports, but if I put the cable in the router and connect the

Optic fiber connection setup with Glasfaser Modem 2

I have a fiber connection MagentaZuhause XXL via Glasfaser Modem 2 and I would like to use it with my

How To Connect Your 5 Gig the Right Way

Upgrading to 5 Gig service offers faster speeds and low latency. To get best results, make sure you connect with a new

Hi there, I have a 1GB/s Fiber Optic internet connection but the internet is not as fast as I would hope. Due to a high

How to Connect Fiber Optic Cable: Comprehensive Guide

Master how to connect fiber optic cable with our detailed guide. Step-by-step instructions to ensure you achieve the

Best routers for fiber internet 2025: our top picks for fast broadband

To find the best router for fiber internet, we used our expertise to select items based on key specs, such as speeds,

I have gigabit fiber (950mbps wired) and am only getting ...

I have gigabit fiber (950mbps wired) and am only getting 330mbps from my router (TP-Link Archer AX1500), is that to be expected?

Best routers for fiber internet 2025: our top picks for fast broadband

If you are looking for a new fiber internet router, then you should check our round-up of some of the best routers right

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

See when you can use your own router for fiber internet, what equipment is still required,

Best fiber-compatible routers for gigabit plans

Top Choices for Routers Supporting Gigabit Fiber Internet Fiber internet offers blazing fast speeds that demand high

How To Find The Best Router For Gigabit Internet

Gigabit wire-speed routers can produce significantly lower throughput depending on the features you use.

Fiber Optic Router — Everything You Need to Know

Learn what are the best fiber optic router in the market today and how does it work with your internet connection.

So you have 500Mbps-1Gbps fiber and need a router READ THIS FIRST

So your cable company rolled out 500Mbps or 1Gbps download speeds, or you have 1Gbps symmetric fiber

Can I use my existing router with fiber?

Can I use my router with AT& T Fiber? Find out if your router is compatible, learn about setup, and explore alternatives

What's the Best Router for Gigabit Internet? | Fidium Fiber

Find top routers for gigabit fiber internet that provide fast, stable connections. Compare features and performance to

The Best Routers for Fiber Internet: My Expert Picks

By using the best router for fiber internet, you can get the most out of the fast speeds. So, if you want unparalleled

Can't Connect Fiber to Your Router? Here's the Easy Way!

Use SFP media converter, which can convert RJ45 electrical signal into optical signal

Optimize Fiber Internet Speed

Optimize your fiber-optic internet with tips on hardware, router placement, and troubleshooting for top speeds.

Going from 50mbps to 10 gigabit fiber! Do I need a new router?

But, from what I've been reading, Ubiquiti dropped the ball on it, and all 8 ports are internally linked to the router with a single 1

Top: Wi-Fi Routers for Fiber Optics

Wi-Fi Routers for Fiber Optics: If you are getting a Fiber Optics Internet plan soon (or already have it), you need to

How to Connect Fiber Optic Cable to Router: Complete Guide 2025

By following this detailed guide, you've not only learned how to connect fiber optic cable to router properly but also

Five things to do before making the upgrade to gigabit internet

There are some things to do before upgrading to gigabit internet. If you follow these steps, you'll soon have more

hi, i havent been up to date with fiber optic internet most of my knowledge is from adsl router, i was wondering if i

TP-Link Router Internet Speed: Mbps and Wi-Fi FAQs

Get answers to common TP-Link speed questions — router speed, Wi-Fi Mbps, link speed, WAN port limits, and real

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

Can I connect an FTTH fiber connection directly to a MikroTik router

I'm looking to connect my FTTH fiber connection directly to a MikroTik router to utilize my 500 Mbps internet plan. I

Contact Us

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