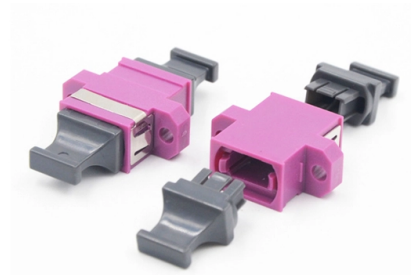


# A parent-child router can use fiber optic cable



## AI Overview

Yes, a parent-child router setup can be connected using fiber optic cable, but it requires compatible hardware such as SFP modules or media converters to translate optical signals into Ethernet. How It Works Fiber optic cables transmit data as light pulses, offering high-speed, low-latency connections over long distances, often up to 10 km while maintaining speeds up to 10 Gbps . Standard home routers cannot directly accept fiber optic input unless they have a dedicated SFP (Small Form-factor Pluggable) port designed for fiber . Therefore, to connect a parent router to a child router via fiber, you need one of the following:

- SFP-enabled routers:** Both routers must have SFP ports, and compatible fiber modules must be installed.
- Media converters:** If the routers only have Ethernet ports, fiber optic signals can be converted to Ethernet using media converters at both ends .

**Setup Steps**

- Install SFP Modules or Media Converters:** Insert SFP transceivers into the SFP ports of each router, or connect media converters to the routers' Ethernet ports.
- Connect Fiber Cable:** Use a pre-terminated fiber optic cable (commonly LC/UPC connectors) to link the SFP modules or media converters .
- Configure Network Settings:** Assign static IP addresses to the child router if it is operating as an access point, and ensure DHCP is disabled on the child router to avoid conflicts .
- Test the Connection:** Verify that the parent router recognizes the child router and that data flows correctly over the fiber link.

**Advantages**

- Long-distance coverage:** Fiber can maintain high speeds over distances far exceeding Ethernet limits.
- High bandwidth and low latency:** Ideal for multi-story homes, offices, or environments with heavy network traffic.
- Future-proofing:** Fiber supports higher speeds and more stable connections than copper cables.

**Considerations**

Ensure both routers or media converters are compatible with...

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A fiber optic router has specific features to harness the lightning-fast speeds of fiber optic networks (Fiber-To-The-Home or FTTH) from your ISP. Your router or

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My local internet providers, Indiehome, uses a fiber optic cable and they gave us a free Huawei router, they said it was their standard. But that router kinda have a low security (people can

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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 for optimal performance.

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The router may require a few minutes to set up the new connection. 7. Verify the connection: To make sure everything worked correctly, check the internet connection on your

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## Contact Us

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