

Gigabit Fiber Optic Router Main and Daughter Units



Article Overview

For gigabit fiber internet, mesh Wi-Fi systems with a main router and satellite units provide full-home coverage and multi-gig speeds.

Overview

A gigabit fiber optic router is designed to handle high-speed fiber internet, often exceeding 1 Gbps, and can distribute it efficiently across wired and wireless networks. For larger homes or offices, a mesh system with a main unit (router) and daughter units (satellites) ensures consistent speeds and eliminates dead zones .

Key Features to Consider

- **Wi-Fi Standard:** Wi-Fi 6E or Wi-Fi 7 is recommended to fully utilize gigabit fiber speeds and support multiple devices simultaneously .
- **Ports:** Look for multi-gigabit Ethernet ports (1G, 2.5G, or 10G) and WAN/LAN aggregation to maximize wired throughput .
- **Coverage:** Mesh systems extend coverage; each satellite can cover 1,500–2,500 sq. ft., depending on the model .
- **Performance:** High-end routers like the Netgear Nighthawk RS700S or Orbi 970 can deliver over 1.5 Gbps to Wi-Fi 7 devices and maintain near-gigabit speeds across multiple nodes .
- **Device Capacity:** Advanced routers can support 75–200+ devices, ideal for smart homes or offices with many connected devices

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7 Best Fiber Optic Routers for Home Use

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9 Best Fiber Optic Router | Tri-Band vs Quad-Band for Fiber

This guide breaks down the top contenders for the best fiber optic router, sorted by value and capability so you can match the

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