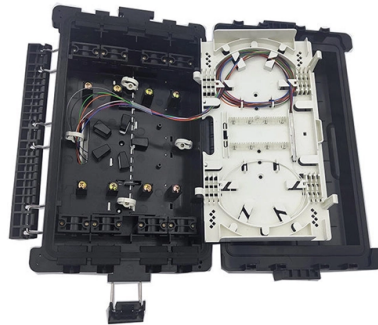


What router is best for a 20G fiber optic connection



Article Overview

For a 20G fiber optic connection, you need a high-end router with multi-gigabit Ethernet ports, Wi-Fi 7 support, and robust CPU performance, such as the NETGEAR Nighthawk RS700S or ASUS RT-BE96U.

Key Features to Look For

- **Multi-Gigabit Ethernet Ports:** To fully utilize a 20G fiber connection, the router should have 10G or higher LAN/WAN ports. Some routers support LAN aggregation to combine ports for higher throughput, though this may only reach 2-4 Gbps per aggregated link . For 20G speeds, consider routers with dedicated 10G SFP+ or 10GBase-T ports and plan for link aggregation across multiple devices.
- **Wi-Fi 7 Support:** Wi-Fi 7 routers, like the NETGEAR Nighthawk RS700S, provide faster wireless speeds, lower latency, and better handling of multiple devices compared to Wi-Fi 6 . This is essential if you want to distribute high-speed fiber over wireless networks without bottlenecks.
- **High-Performance CPU and RAM:** Routers with quad-core CPUs and at least 2 GB RAM can manage high-speed traffic efficiently, reducing latency and maintaining stable connections for multiple devices .
- **Coverage and Antennas:** For large homes or offices, routers with multiple internal or external antennas and mesh capabilities ensure consistent coverage across all areas .
- **Advanced Features:** Look for routers with Quality of Service (QoS), MU-MIMO, OFDMA, and security features like NETGEAR Armor or ASUS AiProtection to optimize performance and protect your network

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