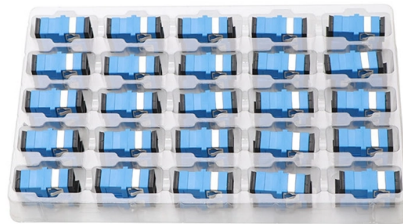


Router with 500m fiber optic cable



Article Overview

For a 500-meter fiber optic cable, you need a fiber-compatible router with high-speed WAN ports, preferably supporting Wi-Fi 6 or 7, and optional mesh capabilities for extended coverage.

Key Considerations

- **Fiber Compatibility:** Ensure the router has a WAN port that supports fiber connections, either directly via an SFP module or through a fiber modem provided by your ISP . Most modern fiber ISPs provide an ONT (Optical Network Terminal) that converts fiber to Ethernet, which can then connect to a standard router.
- **High-Speed Performance:** For fiber speeds up to 1 Gbps or higher, routers with Wi-Fi 6 or Wi-Fi 7 are recommended. Examples include:
 - **NETGEAR Nighthawk RS700S:** Wi-Fi 7, multi-gigabit Ethernet, supports up to 200 devices, coverage up to 3,500 sq. ft.
 - **ASUS ROG GT-AXE16000:** Ultra-low latency, four frequency bands, dual 10 Gbps WAN/LAN ports, ideal for gaming and streaming
 - **TP-Link Archer AX90/AX55:** Wi-Fi 6, high-speed performance, suitable for mid-sized homes or offices
- **Distance Considerations:** Standard Ethernet over copper is limited to 100 meters, but fiber optic cables can easily handle 500 meters without signal loss. The router itself does not need special modifications for this distance; the fiber cable ensures signal integrity over long runs .

Article Content

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For more information, pricing, or custom solutions, please contact us:

Website: <https://e-motional.eu>

Email: info@e-motional.eu

Phone: +49-30-657-8924

Address: Friedrichstraße 101, 10117 Berlin, Germany

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