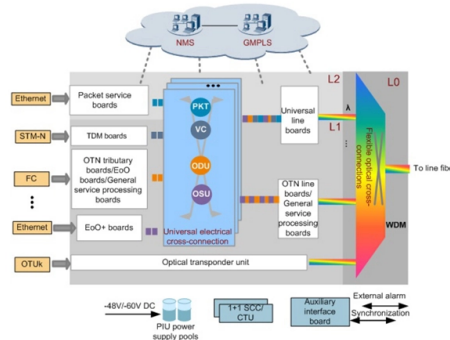


Fiber optic transmission speed is slow compared to router speed



AI Overview

Fiber optic speeds can slow down when passing through a router due to signal conversion, router limitations, network congestion, and Wi-Fi transmission factors. Signal Conversion and Router Role Fiber-optic internet transmits data as light signals through glass or plastic fibers at very high speeds, often up to 10 Gbps . When these signals reach your home, the router converts the optical signal into a digital signal that devices can use. This conversion process, along with the router's internal processing, can introduce slight delays and reduce the effective speed, especially if the router is outdated or low-quality . Router Limitations Older or low-end routers may not support the full bandwidth of a fiber connection. They can struggle to handle multiple devices simultaneously or high-speed data streams, creating a bottleneck that slows down your internet . Modern routers, particularly those supporting Wi-Fi 6, are designed to handle higher speeds and multiple devices more efficiently, reducing this slowdown . Wi-Fi Transmission Factors If you are using Wi-Fi, the speed can be further reduced due to distance from the router, interference from other devices, and physical obstacles like walls or furniture . Even with fiber, the wireless signal is limited by the router's radio capabilities, which is why wired connections often provide faster and more stable speeds. Network Congestion and Cable Quality High network traffic within your home or on your ISP's network can also reduce speeds. Additionally, damaged or low-quality Ethernet cables (e.g., Cat 5 instead of Cat 6 or higher) can limit the maximum throughput from the router to your devices . Ensuring proper cable quality and secure connections helps maintain optimal speeds. Troubleshooting Tips Upgrade to a high-quality, modern router capable of gigabit speeds . Use wired connections for devices requiring maximum sp...

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4 reasons your fibre internet may be slow – and how

Most traditional routers support FTTP-enabled internet connection, but cannot efficiently handle the high-speed data transmission of fibre-optic

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