Fiber optic router width

Article Overview

Most consumer fiber optic routers range from 7 to 12 inches (18-30 cm) in width, while enterprise models can be wider depending on rack-mount design.

Consumer Routers

Typical home or small office fiber optic routers, such as the ASUS RT-BE86U or Netgear RS700S, are designed to sit on a desk or shelf. Their widths generally fall between 7 and 12 inches (18-30 cm), with depths around 5-8 inches (12-20 cm) and heights of 1.5-3 inches (4-8 cm) . These routers often include multiple Ethernet ports, internal or external antennas, and ventilation, which influence their size.

Enterprise or Rack-Mount Routers

For larger networks, fiber optic routers may be rack-mounted, typically 19 inches (48.3 cm) wide to fit standard server racks. Depths vary from 8 to 18 inches (20-46 cm), and heights are measured in rack units (1U = 1.75 inches / 4.45 cm) . These routers are designed for high throughput, multi-gig WAN ports, and advanced features, so they are physically larger than consumer models.

Factors Affecting Width

o Number of ports: More LAN/WAN ports generally increase width.
o Antenna design: External antennas can extend width or require additional clearance.
o Cooling and ventilation: Larger routers may include fans or heat sinks, affecting overall dimensions.
o Form factor: Desktop vs. rack-mounted routers have different width standards. In summary, home fiber optic routers are usually under 12 inches wide, while enterprise or rack-mounted routers conform to 19-inch rack standards, making them significantly wider. Always check the manufacturer's datasheet for exact dimensions before installation.

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