

Enterprise-level router fiber optic ports and Ethernet ports



Overview

Cisco Enterprise Router Selector Explore our router selector to swiftly identify and migrate to the Cisco enterprise router that best fits your needs. These.

Key Takeaways

Enterprise routers typically combine multiple Gigabit or 10GbE Ethernet ports with SFP/SFP+ fiber optic ports to ensure high-speed, redundant, and scalable connectivity.

Key Features of Enterprise Routers

Port Types and Speeds: Modern enterprise routers often include a mix of Gigabit Ethernet (1GbE), 2. 5GbE, 10GbE, and SFP/SFP+ fiber ports for flexible LAN and WAN connectivity. For example, the HPE HSR6800 series offers high-density 10GbE and 1GbE ports along with SFP/SFP+ support, enabling both copper and fiber connections for data center or WAN interconnects.

Smaller rackmount devices like the RB3011 provide 10 Gigabit Ethernet ports, SFP support, and PoE output, suitable for campus or branch office deployments.

Redundancy and Reliability: Enterprise routers often include dual power supplies, WAN failover, and multiple SIM slots for cellular backup. The Teltonika RUTXR1, for instance, features two SIM slots, WAN failover, and dual DC power inputs, ensuring uninterrupted connectivity.



Modularity and Scalability: Many enterprise routers support modular line cards or expansion slots, allowing organizations to add additional SFP/SFP+ ports or upgrade Ethernet speeds as network demands grow. This is critical for data centers or large campus networks where traffic loads can vary. **Remote Management and Security:** Advanced routers provide remote management systems (RMS), VPN support, and secure firmware updates, enabling IT teams to manage multiple sites without on-site intervention.

Security features often include firewall, MPLS, IPv6 support, and quality of service (QoS) for enterprise-grade performance. **Wireless Integration:** Some enterprise routers, like the RUTXR1, also integrate dual-band Wi-Fi 6/802.11ac for seamless wireless coverage, supporting up to 100 simultaneous connections, which is useful for office environments.

Choosing the Right Router

When selecting an enterprise router with fiber and Ethernet ports, consider: **Port requirements:** Number of 1GbE, 10GbE, and SFP/SFP+ ports needed for current and future network expansion. **Redundancy needs:** Dual power supplies, WAN failover, and cellular backup for mission-critical operations. **Performance:** Throughput capacity (e.g., 2 Tbps switching for HPE HSR6800) and packet forwarding rates.

Management capabilities: Remote monitoring, VPN, and firmware management. **Deployment environment:** Rackmount vs compact form factor, PoE support, and integration with existing network infrastructure. **Examples of Enterprise Routers**
HPE HSR6800 Series: High-performance, modular, 10GbE/1GbE ports, SFP/SFP+, MPLS, IPv6, and carrier-grade reliability.

Teltonika RUTXR1: Rackmount 4G router with SFP port, five Gigabit Ethernet ports, dual SIM slots, WAN failover, and dual DC power inputs. **RB3011:** Compact 1U router with 10 Gigabit Ethernet, SFP support, PoE output, and ARM-based CPU for high throughput. **Enterprise-grade home routers (e.g., ASUS ROG Rapture GT-BE98 PRO):** Dual 10GbE ports, multiple 2.

5GbE ports, Wi-Fi 7, suitable for small offices or labs. These routers provide a combination of fiber optic and Ethernet connectivity, redundancy, and high throughput, making them suitable for enterprise networks, data centers, and branch offices.

Article Content

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Look no further. GPON (Gigabit Passive Optical Network) routers are the backbone of high-speed fiber-optic internet, delivering lightning-fast speeds and reliable

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RJ45 ports use standard Ethernet cables, which are affordable and easy to work with, making them ideal for most users. SFP+ ports offer greater flexibility, allowing you to use fiber optic

Cisco 890 Series Integrated Services Routers Data Sheet

The 890 routers simplify the deployment of Ethernet WAN services, with end-to-end Operations, Administration, and Maintenance (OA&M), Service-Level Agreement (SLA) monitoring

Best 10Gb Router in 2026: Tested and Reviewed

In this guide, we've tested and reviewed the best 10Gb routers on the market to help you make an informed choice.

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

