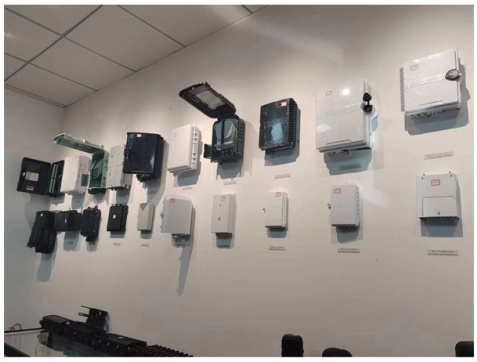
Ranking of Carrier-Grade Routers



Overview

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Key Takeaways

Top carrier-grade routers in 2026 include the HPE HSR6800, Cisco ASR 9000 series, Juniper MX series, Nokia 7750 SR, Huawei NE series, and Ericsson SSR series, recognized for high throughput, low latency, and robust carrier-grade features.Leading Carrier-Grade Routers
• HPE HSR6800 Router Series The HSR6800 is a high-performance, multiservice router designed for data center interconnection, enterprise WAN core, and telecom networks. It supports up to 420 million packets per second (Mpps) forwarding and 2 Tbps switching capacity, with extensive routing, MPLS, multicast, IPv6, and carrier-grade high-availability features. Its modular Comware v7 OS enhances system reliability and introduces advanced features like ADVPN, IRF2, EVI, EAA, and ISSU, making it highly suitable for large-scale carrier networks .

• Cisco ASR 9000 Series Cisco's ASR 9000 series is widely deployed in service provider networks, offering high throughput, scalability, and redundancy. It supports advanced MPLS, IPv6, and QoS features, with modular line cards for flexible interface options. The series is optimized for 5G, edge computing, and high-bandwidth applications, making it a top choice for carrier-grade deployments .

• Juniper MX Series The Juniper MX series provides carrier-class routing with high reliability and low latency, supporting large-scale MPLS, BGP, and multicast deployments. It features modular hardware, high-density 10GbE/100GbE interfaces, and advanced automation capabilities, suitable for both core and edge network applications .

• Nokia 7750 SR Series Nokia's 7750 SR routers are designed for service provider core and edge networks, offering high throughput, low latency, and robust MPLS and IP routing capabilities. They support SDN and NFV integration, enabling flexible network management and virtualization .

• Huawei NE Series Huawei NE routers deliver high-performance carrier-grade routing, supporting large-scale MPLS, IPv6, and QoS features. They are optimized for 5G backhaul, cloud connectivity, and IoT traffic, with modular designs for interface expansion and high availability .

• Ericsson SSR Series Ericsson SSR routers are tailored for telecom and mobile backhaul networks, providing high throughput, low latency, and strong reliability. They support MPLS, IPv6, and advanced QoS, with features for SDN and NFV integration to enhance network agility .
Key Considerations for Carrier-Grade Routers
• Throughput and Latency: Essential for handling high-bandwidth traffic and low-latency applications like 5G and cloud services.

• Modularity: Allows adding line cards, interfaces, or processing power to scale with network growth.

• High Availability: Redundant power supplies, hot-swappable modules, and ISSU support ensure minimal downtime.

• Advanced Protocol Support: MPLS, BGP, OSPF, IPv6, and multicast are critical for carrier networks.

• Security and QoS: Built-in firewalls, VPN support, and traffic prioritization maintain network integrity and performance.

• SDN/NFV Integration: Enables flexible, software-defined network management and virtualization for modern carrier networks . These routers represent the current top-tier options for carrier-grade deployments, balancing performance, reliability, and advanced features to meet the demands of modern telecom and enterprise networks.

Article Content

Cisco Carrier Grade Services Engine Module Data Sheet

The Cisco ® Carrier-Grade Services Engine (CGSE) for the Cisco Carrier Routing System (CRS) is an ideal platform

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