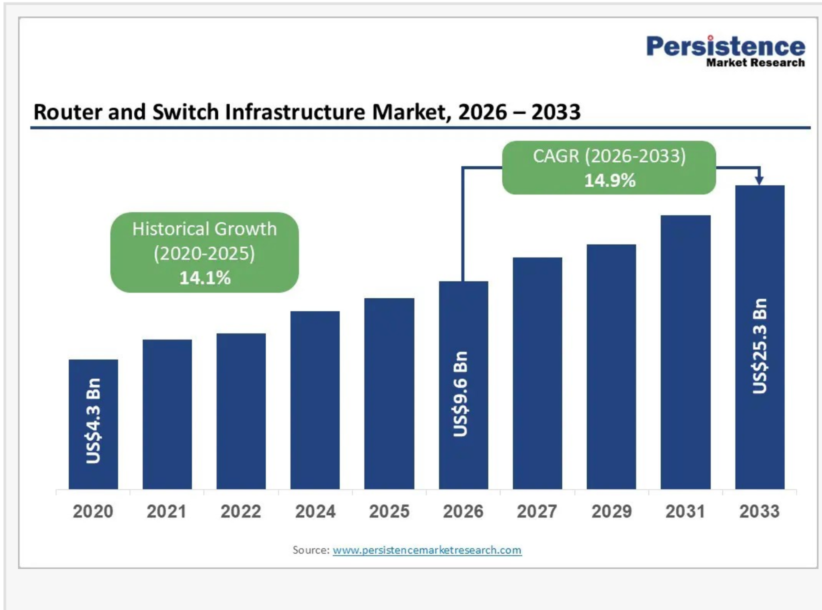
Router and Switch Infrastructure Market to Reach US$25.3 Billion by 2033, Growing at 14.9% CAGR

The global router and switch infrastructure market size is valued at US$9.6 Bn in 2026, and is set to reach US$25.3 Bn by 2033, growing at a CAGR of 14.9%



BRENTFORD, ENGLAND, UNITED KINGDOM, July 8, 2026 /EINPresswire.com/ -- The global [Router and Switch Infrastructure Market](#) is projected to grow from US$9.6 billion in 2026 to US$25.3 billion by 2033, expanding at a CAGR of 14.9%. Rising data traffic, cloud computing, AI workloads, edge computing, IoT adoption, and 5G deployment are driving demand for advanced networking solutions with higher speed, security, and scalability. Data center infrastructure is expected to dominate with around 35% share in 2026, while core routers lead the router segment with nearly 32% share due to their role in high-capacity network operations. North America is projected to hold the largest market share at approximately 38%, supported by hyperscale data center investments, enterprise modernization, and major vendors such as Cisco, Juniper, and Arista, while Asia Pacific is expected to witness the fastest growth driven by 5G expansion and digital infrastructure investments.

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Router and Switch Infrastructure Market Segmentation

The router and switch infrastructure market is segmented based on router type, switch type, infrastructure, deployment environment, and end-user industries. By router type, core routers dominate the market due to their ability to process terabit-scale traffic across carrier networks, cloud environments, and internet backbones. Their high throughput and reliability make them essential components for telecommunications operators and hyperscale cloud providers. Virtual routers are expected to experience the fastest growth as enterprises increasingly embrace software-defined networking (SDN), network function virtualization (NFV), and cloud-native network architectures that reduce hardware dependency while improving operational flexibility.

Based on switch type, managed switches account for the largest market share because they provide advanced security, VLAN management, quality of service (QoS), monitoring capabilities, and centralized network administration required by enterprise campuses, industrial facilities, and modern data centers. Power over Ethernet (PoE) switches are expected to witness the fastest expansion as organizations deploy IP surveillance systems, wireless access points, VoIP communications, and smart building technologies that require simultaneous power and data transmission through a single Ethernet cable.

From an infrastructure perspective, data center infrastructure continues to dominate owing to expanding hyperscale cloud facilities, enterprise digital transformation, AI infrastructure development, and increasing demand for high-bandwidth networking equipment supporting 100G, 400G, and emerging 800G connectivity. Cloud infrastructure is anticipated to be the fastest-growing segment as businesses accelerate migration toward public cloud, hybrid cloud, and multi-cloud environments requiring software-defined wide area networking (SD-WAN), virtual routing, and cloud-managed switching solutions.

Regional Insights

North America is expected to dominate the router and switch infrastructure market, supported by strong investments in hyperscale data centers, 5G deployment, enterprise network modernization, AI infrastructure, and cybersecurity. The U.S. leads regional growth, while Canada benefits from broadband expansion, smart city initiatives, and digital infrastructure investments.

Europe is witnessing steady growth driven by digital transformation, Industry 4.0 adoption, cloud computing, and EU-backed digital infrastructure programs. Germany leads the region with industrial automation and manufacturing modernization, while the U.K. sees increasing demand from financial services, telecom, and secure enterprise networking.

Asia Pacific is projected to be the fastest-growing regional market, fueled by rapid 5G rollout, hyperscale data center expansion, cloud adoption, and government-led digital infrastructure initiatives. China remains the largest market, while India and Southeast Asian countries continue investing heavily in enterprise networking and telecommunications infrastructure.

Latin America and the Middle East & Africa are steadily expanding their networking infrastructure through broadband deployment, cloud adoption, enterprise digitalization, and government-supported telecom modernization, creating new growth opportunities for market participants.

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Market Drivers

The router and switch infrastructure market is driven by rapid 5G deployment, cloud adoption, AI workloads, hyperscale data center expansion, and enterprise network modernization. Rising demand for high-speed, secure, and scalable connectivity solutions is accelerating infrastructure upgrades worldwide.

Market Restraints

Market growth is challenged by the shift toward SDN, NFV, and cloud-managed networking, which reduces reliance on traditional hardware. High upgrade costs, complex integration, and shorter technology cycles also impact adoption.

Market Opportunities

AI-powered networking, edge computing, hybrid cloud, and IoT expansion are creating new opportunities. Intelligent network management solutions with automation, predictive analytics, and enhanced security are enabling vendors to deliver higher-value services.

Company Insights

The global router and switch infrastructure market is highly competitive, led by established networking equipment manufacturers that continue investing in software-defined networking, artificial intelligence, cloud-native management platforms, and high-performance silicon technologies. Companies are focusing on innovation, strategic partnerships, advanced chip development, and subscription-based networking solutions to strengthen their competitive positions across enterprise, telecom, and hyperscale cloud markets.

Key Players

• Cisco Systems

• Juniper Networks

• Arista Networks

• Hewlett-Packard Enterprise

• Huawei Technologies

• Dell Technologies

• Extreme Networks

• NETGEAR

• TP-Link

• MikroTik

• ZTE Corporation

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Recent Developments

In March 2026, Juniper Networks introduced the PTX12000 Series modular routers featuring 800GE throughput and 1.6T-ready architecture to support next-generation AI data center interconnects with improved power and space efficiency.

In February 2026, Cisco Systems launched its Silicon One G300 chip and a next-generation AI data center router built on TSMC's 3nm process, improving AI workload performance by up to 28% through microsecond-level traffic rerouting.

Conclusion

The global router and switch infrastructure market is entering a period of accelerated growth as enterprises, telecommunications providers, cloud operators, and hyperscale data center companies continue modernizing networking infrastructure to support digital transformation, artificial intelligence, cloud computing, and 5G connectivity. The growing shift toward intelligent, software-defined, and AI-powered networking solutions is transforming how organizations manage increasingly complex network environments while improving operational efficiency and scalability. Although virtualization and subscription-based networking models present challenges for traditional hardware revenues, they also create new opportunities for vendors offering integrated software platforms, cloud management, and advanced automation capabilities. With North America maintaining its leadership position and Asia Pacific emerging as the fastest-growing market, the router and switch infrastructure industry is expected to remain a critical enabler of next-generation digital infrastructure and global connectivity throughout the forecast period.

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