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Network Equipment Market Forecasts to 2032 – Global Analysis By Equipment Type (Repeaters, Network Interface Cards (NICs), Transceivers, Gateways, Access Points, Switches, Firewalls, Hubs, Modems and Other Equipment Types), Network Type, Technology, Deployment Mode, Sales Channel, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Network Equipment Market is accounted for $41.1 billion in 2025 and is expected to reach $86.4 billion by 2032 growing at a CAGR of 11.2% during the forecast period. Network equipment is the physical devices used to facilitate communication and data transfer within a computer network. These devices include routers, switches, hubs, firewalls, access points, and modems, each serving a unique function in managing, directing, and securing network traffic. Routers direct data between networks, while switches connect devices within a network, enabling efficient data flow. Hubs distribute signals to multiple devices, and firewalls protect the network from unauthorized access. Access points provide wireless connectivity, and modems enable internet access by converting digital signals to analog for communication over telephone lines or cables.

According to data released by the International Monetary Fund (IMF) in October 2021, the global GDP was reduced by -3.1% in 2020 due to COVID-19.

Market Dynamics:

Driver:

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Increasing demand for high-speed internet

The growing demand for high-speed internet is significantly influencing the market. Factors such as the expansion of 5G networks, the proliferation of Internet of Things (IoT) devices, and the increasing reliance on cloud computing and data-intensive applications are driving this demand. Companies like Cisco, Nokia, and Arista Networks are responding by developing advanced networking solutions that offer higher bandwidth and lower latency to accommodate these needs. This trend underscores the critical role of robust network infrastructure in supporting modern digital services and applications.

Restraint:

Security and privacy concerns

Security and privacy concerns are significant challenges in the market. As networks become more interconnected, the risk of cyberattacks, data breaches, and unauthorized access increases. Vulnerabilities in network devices like routers, switches, and firewalls can expose sensitive information, leading to financial losses and damaged reputations. These concerns also hinder the adoption of advanced technologies such as IoT and 5G. To address these issues, manufacturers must prioritize enhanced security features, encryption, and compliance with privacy regulations, which can increase costs and complexity.

Opportunity:

Adoption of IoT and smart devices

The adoption of Internet of Things (IoT) and smart devices is significantly transforming the market. As industries and consumers increasingly deploy connected devices—from wearables and smart home gadgets to industrial sensors—the demand for robust networking infrastructure has surged. This trend is driven by the need for seamless connectivity, real-time data processing, and scalability. Advanced network equipment, including high-performance routers, gateways, and access points, is essential to support the growing volume of IoT traffic and ensure efficient communication across various applications.

Threat:

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High initial investment costs

High initial investment costs are a significant barrier in the market. Organizations, especially small and medium-sized enterprises (SMEs), may find it challenging to afford the upfront expenses associated with advanced network infrastructure, such as routers, switches, and firewalls. These high costs can delay network upgrades or limit access to cutting-edge technologies, potentially hindering business growth and innovation. Additionally, the expense of ongoing maintenance and system updates adds to the financial burden, making cost-effective solutions crucial for market expansion.

Covid-19 Impact

The COVID-19 pandemic significantly impacted the market, driven by a surge in remote work, online education, and digital communication needs. Lockdowns and travel restrictions disrupted global supply chains, causing delays in production and delivery. Meanwhile, increased demand for high-speed internet and data center expansion fueled short-term growth. Companies accelerated digital transformation, boosting investments in cloud infrastructure and 5G deployment. However, economic uncertainty and reduced enterprise spending temporarily restrained broader market growth and innovation.

The optical networks segment is expected to be the largest during the forecast period

The optical networks segment is expected to account for the largest market share during the forecast period. With the growing demand for bandwidth-intensive applications and 5G deployment, service providers are increasingly adopting optical technologies like WDM and fiber optics. These solutions offer low latency, high capacity, and scalability, making them essential for data centers and enterprise networks. As digital transformation accelerates globally, the optical network segment is witnessing significant growth, influencing investments and innovation across the network equipment landscape.

The data centers segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the data centers segment is predicted to witness the highest growth rate. As digital transformation accelerates, data centers require advanced routers, switches, firewalls, and optical transport systems to manage growing data traffic and ensure connectivity. The rise of cloud computing, edge computing, and AI applications further boosts the need for robust network equipment. Consequently,

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manufacturers are innovating to meet evolving data center needs, fostering competition and growth in the global network equipment market.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share driven by rapid digital transformation, expanding 5G infrastructure, and increasing demand for high-speed internet connectivity. Growing investments in smart cities, cloud computing, and IoT technologies further boost demand. Additionally, rising data consumption, government initiatives supporting digitalization, and the proliferation of data centers contribute significantly. The region's large, tech-savvy population and the growth of e-commerce and remote work continue to fuel network infrastructure upgrades, making Asia Pacific a dynamic market for network equipment.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR. The rapid expansion of 5G networks necessitates advanced infrastructure, driving demand for high-performance routers and switches. Simultaneously, the proliferation of IoT devices and cloud computing applications increases the need for scalable and secure networking solutions. Enterprises are investing in software-defined networking (SDN) and edge computing to enhance operational efficiency. Additionally, heightened cybersecurity concerns are prompting organizations to adopt advanced network security measures.

Key players in the market

Some of the key players profiled in the Network Equipment Market include Cisco Systems, Huawei Technologies, Nokia Corporation, Juniper Networks, Arista Networks, Hewlett Packard Enterprise (HPE), Extreme Networks, Broadcom, ZTE Corporation, Allied Telesis, D-Link, TP-Link, Dell Technologies, NETGEAR, Ubiquiti and Ciena Corporation.

Key Developments:

In March 2025, Turkiye's technology leader and Huawei signed Memorandum of Understanding to develop sustainable leading networks using innovative products and solutions in Turkcell Enhanced Network. The collaboration between the companies includes further developing smart cities using next-generation features of 5G Advanced

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Technology in wireless network as well as innovations in ultra-speed broadband services in access network and Quantum Key distribution technology in IP network.

In February 2025, Cisco announced plans for an expanded partnership with NVIDIA to provide AI technology solutions to enterprises. Enterprises recognize that AI is essential to growth but remain early in their adoption as they navigate the unique technical complexity and security demands of operating AI-ready data centers. The expanded partnership aims to give organizations flexibility and choice as they look to meet the demand of AI workloads for high-performance, low-latency, highly power-efficient connectivity within – and between – data centers, clouds, and users.

Equipment Types Covered:

- Repeaters
- Network Interface Cards (NICs)
- Transceivers
- Gateways
- Access Points
- Switches
- Firewalls
- Hubs
- Modems
- Other Equipment Types

Network Types Covered:

- Optical Networks
- Wired Networks

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Wireless Networks

Technologies Covered:

5G

Wi-Fi

4G/LTE

Fiber Optic

Ethernet

Deployment Modes Covered:

On-Premises

Hybrid

Cloud-Based

Sales Channels Covered:

Direct Sales

System Integrators

Distributors/Resellers

Online Retailers

End Users Covered:

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- Telecom Service Providers
- Education
- Data Centers
- Government and Defense
- Enterprises
- Industrial
- Residential
- Other End Users

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain

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- Rest of Europe
- Asia Pacific
  - Japan
  - China
  - India
  - Australia
  - New Zealand
  - South Korea
  - Rest of Asia Pacific
- South America
  - Argentina
  - Brazil
  - Chile
  - Rest of South America
- Middle East & Africa
  - Saudi Arabia
  - UAE
  - Qatar
  - South Africa
  - Rest of Middle East & Africa

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What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Contents

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5 GLOBAL NETWORK EQUIPMENT MARKET, BY EQUIPMENT TYPE

5.1 Introduction
5.2 Repeaters
5.3 Network Interface Cards (NICs)
5.4 Transceivers
5.5 Gateways
5.6 Access Points
5.7 Switches
5.8 Firewalls
5.9 Hubs
5.10 Modems
5.11 Other Equipment Types

6 GLOBAL NETWORK EQUIPMENT MARKET, BY NETWORK TYPE

6.1 Introduction
6.2 Optical Networks
6.3 Wired Networks
6.4 Wireless Networks

7 GLOBAL NETWORK EQUIPMENT MARKET, BY TECHNOLOGY

7.1 Introduction
7.2 5G
7.3 Wi-Fi
7.4 4G/LTE
7.5 Fiber Optic
7.6 Ethernet

8 GLOBAL NETWORK EQUIPMENT MARKET, BY DEPLOYMENT MODE

8.1 Introduction
8.2 On-Premises
8.3 Hybrid
8.4 Cloud-Based

9 GLOBAL NETWORK EQUIPMENT MARKET, BY SALES CHANNEL

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12 KEY DEVELOPMENTS

13 COMPANY PROFILING

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List Of Tables

LIST OF TABLES

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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