+357 96 030922
info@marketpublishers.com

# Telecom Infrastructure Equipment Market Forecasts to 2032 – Global Analysis By Product Type (Switching Equipment, Routers, Gateways, Radio Access Network (RAN), Optical Transport Equipment and Core Network Equipment), Component, Infrastructure, Technology, End User and By Geography

https://marketpublishers.com/r/T92C76954D88EN.html
Date: December 2025
Pages: 200
Price: US$ 4,150.00 (Single User License)
ID: T92C76954D88EN

## Abstracts

According to Stratistics MRC, the Global Telecom Infrastructure Equipment Market is accounted for $84.85 billion in 2025 and is expected to reach $133.61 billion by 2032 growing at a CAGR of 6.7% during the forecast period. Telecom infrastructure equipment is essential for establishing reliable communication networks and ensuring uninterrupted data flow worldwide. It encompasses components such as base stations, antennas, routers, switches, optical cables, and transmission towers that facilitate both wireless and wired connectivity. The growing deployment of 5G networks, Internet of Things (IoT) devices, and cloud services has fueled increased demand for sophisticated telecom equipment. Industry players are focusing on enhancing network performance, minimizing latency, and extending coverage. Expanding investments in network upgrades and development, especially in emerging regions, alongside technological innovations and rising mobile broadband usage, are significantly propelling the expansion of the global telecom infrastructure equipment sector.

According to the International Telecommunication Union (ITU), data shows that by 2024, 5.5 billion people worldwide are using the Internet, representing 68% of the global population. ITU highlights that despite this growth, connectivity gaps remain, particularly in rural and low-income regions, underscoring the need for continued investment in telecom infrastructure.

+357 96 030922
info@marketpublishers.com

Market Dynamics:

Driver:

Growing 5G deployment

The global rollout of 5G networks is significantly fueling growth in the telecom infrastructure equipment market. Network providers are heavily investing in modernizing their systems to accommodate 5G's high-speed, low-latency, and large-scale connectivity demands. This modernization requires sophisticated hardware like antennas, small cells, routers, base stations, and optical fibers. The proliferation of 5G enables innovative applications, including autonomous transport, smart urban development, and advanced mobile broadband services, which further increases infrastructure needs. Rising demand for faster data transmission, enhanced network reliability, and wider geographical coverage is driving continuous investment in cutting-edge telecom equipment worldwide.

Restraint:

High capital expenditure

The requirement for large capital investments to deploy and upgrade telecom infrastructure significantly restrains market growth. Rolling out new networks or upgrading to 5G involves heavy spending on antennas, routers, switches, base stations, small cells, and optical fiber systems. Many telecom operators, especially in emerging markets, face budgetary limitations that slow network expansion. Operational and maintenance expenses add further financial pressure. High initial costs may prevent smaller players from entering the market or modernizing existing systems, limiting overall sector growth. Developing affordable and efficient infrastructure solutions remains a major challenge for telecom operators worldwide, impacting the pace of global network deployment and modernization.

Opportunity:

Growing internet of things (IoT) applications

The expanding adoption of Internet of Things (IoT) technologies provides a major growth avenue for the telecom infrastructure equipment market. Connected devices, from smart home gadgets and wearable's to industrial sensors, demand high-capacity,

+357 96 030922
info@marketpublishers.com

low-latency, and reliable networks. To meet this demand, telecom providers must invest in advanced routers, switches, antennas, and transmission systems capable of supporting massive connectivity. As consumer and enterprise reliance on IoT solutions grows, the need for scalable and resilient infrastructure rises. Companies offering IoT-ready equipment and solutions are positioned to capture market opportunities. Overall, the IoT boom is expected to drive substantial investments and technological advancements in global telecom infrastructure.

Threat:

Supply chain disruptions

Disruptions in supply chains pose a major threat to the telecom infrastructure equipment market. The production and distribution of essential hardware, including antennas, switches, routers, and optical fiber, rely on intricate global supply networks. Natural disasters, geopolitical conflicts, trade barriers, or health crises can interrupt manufacturing and delay deliveries. These interruptions increase costs, postpone network deployment, and impact service reliability. Telecom operators and equipment manufacturers need diversified suppliers and contingency strategies to minimize risks. Unstable supply chains may slow the adoption of new technologies such as 5G, delay infrastructure expansion, and restrict market growth. Building resilient and agile supply chains is essential for sustained telecom operations.

Covid-19 Impact:

The COVID-19 pandemic had both positive and negative effects on the telecom infrastructure equipment market. Remote work, online learning, and increased digital communication boosted demand for high-speed networks and advanced infrastructure, including antennas, routers, switches, and fiber optic systems. However, global supply chain interruptions, factory closures, and transportation challenges caused delays in production and installation of telecom equipment. Many operators temporarily reduced capital investments due to economic uncertainties, slowing network rollout in some areas. Despite these challenges, the crisis accelerated digital adoption and highlighted the importance of robust network infrastructure, creating opportunities for long-term growth while revealing the need for resilient supply chains and strategic planning in the telecom sector.

The radio access network (RAN) segment is expected to be the largest during the forecast period

+357 96 030922
info@marketpublishers.com

The radio access network (RAN) segment is expected to account for the largest market share during the forecast period. Acting as the link between mobile devices and the core network, RAN ensures seamless wireless connectivity and communication services. It includes base stations, antennas, small cells, and other essential components that facilitate voice, data, and broadband transmission. The widespread rollout of 4G and 5G networks has fueled global RAN equipment deployment. Emerging technologies like cloud RAN and massive MIMO are further boosting demand. With telecom operators focusing on expanding network coverage, improving capacity, and enhancing service quality, RAN continues to be the leading segment driving investments and growth in the telecom infrastructure equipment sector.

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

Over the forecast period, the services segment is predicted to witness the highest growth rate. It covers network design, installation, integration, maintenance, and managed solutions, which are increasingly sought after as operators implement advanced technologies like 5G. Leveraging outsourced services helps operators streamline operations, cut costs, and deploy infrastructure efficiently. The surge in cloud networks, IoT deployments, and high-speed mobile broadband is intensifying demand for specialized service providers. Firms that offer innovative, reliable, and scalable services are well-positioned to capitalize on this opportunity. Consequently, the Services segment is expected to drive notable growth and play a pivotal role in the expansion of the global telecom infrastructure equipment market.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share. Rapid mobile and internet growth, widespread adoption of 4G and 5G technologies, and significant investments in network upgrades contribute to its leading position. Key countries like China, India, and Japan are at the forefront of deploying advanced infrastructure, including antennas, base stations, optical fiber networks, and core systems. Increasing digitalization, urban expansion, and demand for fast connectivity are fueling the rollout of next-generation network solutions. Supportive government policies and incentives further encourage operators to enhance infrastructure. Combined with a large population and high technology uptake, Asia-Pacific continues to maintain its status as the largest and most influential telecom infrastructure equipment market globally.

+357 96 030922
info@marketpublishers.com

Region with highest CAGR:

Over the forecast period, the Middle East & Africa region is anticipated to exhibit the highest CAGR. Expanding digitalization, increased smartphone adoption, and growing demand for reliable high-speed connectivity are prompting substantial investments in network infrastructure. Operators are modernizing legacy systems and rolling out advanced technologies such as 4G and 5G to address rising connectivity requirements. Government-backed digital initiatives, including smart city developments, are further supporting market expansion. The push to improve network coverage in both metropolitan and rural areas drives the deployment of antennas, base stations, routers, and fiber optic networks. MEA's developing telecom sector provides lucrative opportunities for global infrastructure equipment providers.

Key players in the market

Some of the key players in Telecom Infrastructure Equipment Market include Huawei Technologies Co. Ltd., Cisco Systems Inc., Ericsson, Nokia Corporation, ZTE Corporation, Fujitsu Limited, Corning Incorporated, Motorola Solutions Inc., Juniper Networks Inc., Ciena Corporation, Qualcomm Incorporated, NEC Corporation, Accton Technology Corporation, ECI Telecom Ltd. and Tellabs Inc.

Key Developments:

In November 2025, Nokia (NOK) announced a new five-year contract extension with its strategic partner, Telefonica (TEF) Germany to modernize and upgrade its nationwide radio access network until 2030. The agreement includes Nokia's advanced Cloud RAN solutions and supports Telefonica's ambitions for rapid 5G expansion and sustainable digitalization across Germany.

In October 2025, Ericsson and e& have entered a multi-year agreement to upgrade e& UAE's 5G Core Network by deploying Ericsson's advanced cloud-native technologies. The agreement, made at GITEX GLOBAL 2025, encompasses the modernization of core network applications from Ericsson's dual-mode 5G Core solution, running on a combination of Ericsson Cloud Native Infrastructure Solution and e&'s own cloud.

In March 2025, Huawei and the Netherlands' Sona signed a strategic cooperation agreement. According to the agreement, the two parties will cooperate closely in the secure access service edge (SASE) field to jointly develop products, build a more intelligent network security system for enterprises worldwide, and share the SASE

+357 96 030922
info@marketpublishers.com

market. Sonia Harjani, founder of Sona, and Vincent Liu from President of Global Enterprise Network Marketing and Sales Dept, Huawei, attended the signing ceremony.

Product Types Covered:

- Switching Equipment
- Routers
- Gateways
- Radio Access Network (RAN)
- Optical Transport Equipment
- Core Network Equipment

Components Covered:

- Hardware
- Software
- Services

Infrastructures Covered:

- Wireless Infrastructure
- Wired Infrastructure

Technologies Covered:

- 2G/3G
- 4G/LTE

+357 96 030922
info@marketpublishers.com

- 5G
- Emerging 6G

End Users Covered:

- Telecom Operators
- Enterprises
- Neutral-Host Providers
- Tower Companies

Regions Covered:

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

+357 96 030922
info@marketpublishers.com

- 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

+357 96 030922
info@marketpublishers.com

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

+357 96 030922
info@marketpublishers.com

# Contents

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com



## 10 GLOBAL TELECOM INFRASTRUCTURE EQUIPMENT MARKET, BY GEOGRAPHY

+357 96 030922
info@marketpublishers.com

## 11 KEY DEVELOPMENTS



## 12 COMPANY PROFILING

+357 96 030922
info@marketpublishers.com

# List Of Tables

## LIST OF TABLES

+357 96 030922
info@marketpublishers.com


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

+357 96 030922
info@marketpublishers.com

## I would like to order

Product name: Telecom Infrastructure Equipment Market Forecasts to 2032 – Global Analysis By Product Type (Switching Equipment, Routers, Gateways, Radio Access Network (RAN), Optical Transport Equipment and Core Network Equipment), Component, Infrastructure, Technology, End User and By Geography

Product link: https://marketpublishers.com/r/T92C76954D88EN.html

Price: US$ 4,150.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/T92C76954D88EN.html