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Next?Generation Connectivity Market Forecasts to 2032 – Global Analysis By Component (Hardware, Software, Services), Deployment Mode, Technology, Application, End User and By Geography

https://marketpublishers.com/r/N0113C4E8614EN.html
Date: July 2025
Pages: 200
Price: US$ 4,150.00 (Single User License)
ID: N0113C4E8614EN

Abstracts

According to Stratistics MRC, the Global Next?Generation Connectivity Market is accounted for $9.2 billion in 2025 and is expected to reach $21.8 billion by 2032 growing at a CAGR of 13.0% during the forecast period. Next-generation connectivity refers to the advanced network technologies that enable faster, more reliable and seamless communication across devices, platforms, and geographies. It encompasses innovations like 5G, Wi-Fi 6, edge computing, and satellite internet, which together support ultra-low latency, massive data throughput, and real-time responsiveness. These technologies empower smart cities, autonomous vehicles, remote healthcare, and immersive experiences like augmented and virtual reality. By integrating AI and IoT, next-generation connectivity transforms how people interact with the digital world, driving efficiency, innovation, and global collaboration. It lays the foundation for a hyper-connected future where everything and everyone can be intelligently linked.

Market Dynamics:

Driver:

Rising demand for high-speed data transfer

The surge in data-intensive applications, cloud computing, and real-time services is fueling the demand for high-speed data transfer. Next-generation connectivity technologies like 5G and Wi-Fi 6 enable ultra-fast, low-latency communication, supporting seamless streaming, remote work, and smart infrastructure. As industries

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digitize and consumers expect instant access, the need for robust, high-speed networks becomes critical. This demand acts as a major driver for market growth, pushing innovation and adoption across sectors globally.

Restraint:

Security concerns

Despite its transformative potential, next-generation connectivity faces significant security challenges. The proliferation of connected devices and decentralized networks increases vulnerability to cyberattacks, data breaches, and privacy violations. As AI and IoT integrate deeper into critical systems like healthcare and transportation, ensuring secure data transmission and device authentication becomes paramount. These concerns may hinder adoption rates, especially in sectors with stringent regulatory requirements.

Opportunity:

Expansion of 5G, IoT, and AI technologies

The rapid evolution of 5G, IoT, and AI presents immense growth opportunities for next-generation connectivity. These technologies enable intelligent automation, real-time analytics, and hyper-connected ecosystems. From smart cities to autonomous vehicles and industrial automation, their integration enhances efficiency and innovation. As global investments rise and infrastructure matures, the market is poised to benefit from expanded applications and new business models, unlocking transformative potential across sectors and driving long-term growth.

Threat:

Infrastructure complexity and cost

Implementing next-generation connectivity demands substantial investment in infrastructure, including fiber optics, edge computing nodes, and satellite systems. The complexity of integrating diverse technologies and maintaining interoperability across platforms poses a significant challenge. High deployment costs may slow adoption. Additionally, managing network scalability and performance under increasing data loads adds operational strain, making infrastructure complexity and cost a notable threat to market expansion.

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Covid-19 Impact:

The Covid-19 pandemic accelerated digital transformation, boosting demand for reliable connectivity in remote work, telemedicine, and virtual learning. However, supply chain disruptions and delayed infrastructure projects temporarily hindered market growth. Post-pandemic, the emphasis on resilient, high-speed networks has intensified, driving investments in 5G, edge computing, and satellite internet. The crisis highlighted the critical role of next-generation connectivity in maintaining societal functions, ultimately reinforcing its importance and catalyzing long-term adoption across industries.

The healthcare connectivity segment is expected to be the largest during the forecast period

The healthcare connectivity segment is expected to account for the largest market share during the forecast period due to rising demand for telehealth, remote patient monitoring, and AI-driven diagnostics. Next-generation networks enable real-time data exchange between devices and healthcare providers, improving patient outcomes and operational efficiency. Technologies like 5G and edge computing support low-latency communication essential for critical care and robotic surgeries. As healthcare systems modernize globally, connectivity becomes a cornerstone for delivering accessible, high-quality medical services.

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

Over the forecast period, the network slicing segment is predicted to witness the highest growth rate due to ability to create customized virtual networks for specific applications. This innovation allows operators to allocate bandwidth and latency based on use-case requirements, enhancing performance for sectors like autonomous vehicles, industrial IoT, and gaming. As 5G adoption grows, network slicing becomes vital for optimizing resources and delivering differentiated services, making it a key growth area in next-gen connectivity.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share due to rapid urbanization, strong government initiatives, and high mobile penetration. Countries like China, Japan, and South Korea are leading in 5G

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deployment and smart city development. The region’s robust manufacturing base and growing tech ecosystem further fuel demand for advanced connectivity solutions. With increasing investments in digital infrastructure and innovation, Asia Pacific emerges as a dominant force in shaping the global connectivity landscape.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR owing to early adoption of 5G, strong R&D capabilities, and a mature digital ecosystem. The region’s emphasis on edge computing, AI integration and cybersecurity fosters rapid innovation. Government support and private sector investments in smart infrastructure and healthcare connectivity further accelerate growth. With tech giants and startups pushing boundaries, North America remains a hotspot for next-generation connectivity advancements.

Key players in the market

Some of the key players in Next?Generation Connectivity Market include Ericsson AB, LG Electronics Inc., Huawei Technologies Co., Ltd., Oracle Corporation, Nokia Corporation, Mavenir Systems, Inc., Samsung Electronics Co., Ltd., Microsoft Corporation, Qualcomm Technologies, Inc., Dell Technologies, ZTE Corporation, NEC Corporation, Intel Corporation, AT&T Inc., and Cisco Systems, Inc.

Key Developments:

In July 2025, Dell Technologies and TD SYNNEX are launching new AI Labs in Germany, France and the UK, equipped with Nvidia infrastructure, to let businesses prototype, scale and deploy enterprise AI more confidently in real environments.

In June 2025, Nokia has signed a four-year extension with Elisa to upgrade and expand 5G (5.5G) infrastructure across Finland and Estonia. The rollout will include Nokia’s latest AirScale RAN equipment, energy-efficient Massive MIMO radios, cloud-native Voice Core, and enhanced automation—boosting AI, AR/VR, and industrial automation capabilities.

Components Covered:

- Hardware

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Software

Services

Deployment Modes Covered:

Public Networks

Private Networks

Hybrid Networks

Technologies Covered:

5G Networks

Network Slicing

6G Research & Development

Edge Computing & MEC

Wi-Fi 6 & Wi-Fi 7

Satellite & Non-Terrestrial Networks

LPWAN (LoRa, NB-IoT, Sigfox)

Cloud-Native Networking

Applications Covered:

Smart Cities

Defense & Aerospace

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- Industrial IoT
- Energy & Utilities
- Autonomous Vehicles & Transportation
- Healthcare Connectivity
- AR/VR & Immersive Experiences
- Other Applications

End Users Covered:

- Telecom Operators
- Government & Public Sector
- Enterprises
- Consumers

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK

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- Italy
- France
- Spain
- 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

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UAE

Qatar

South Africa

Rest of Middle East & Africa

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

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

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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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