

Global 5G Core Market Size Study & Forecast, by Component (Solutions and Services), by Network Function (Access and Mobility Management Function, Policy Control Function, Unified Data Management), by Deployment Model (Cloud and On-premises), by End User and Regional Forecasts 2025-2035

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Abstracts

The Global 5G Core Market is valued at approximately USD 5.51 billion in 2024 and is projected to expand at an extraordinary CAGR of nearly 72.0% over the forecast period 2025-2035. The 5G Core (5GC) serves as the central nervous system of next-generation networks, enabling ultra-reliable, low-latency, and high-speed connectivity that underpins emerging technologies. As digital ecosystems continue to evolve, 5G Core acts as the bedrock for transformative applications spanning from autonomous mobility to industrial IoT, immersive media, and mission-critical communications. Rising mobile data consumption, enterprise digital transformation, and government-backed 5G rollouts worldwide are propelling the market's momentum, while the convergence of cloud-native architectures and software-defined infrastructure further accelerates adoption.

The exponential growth of connected devices, coupled with skyrocketing demand for seamless digital experiences, has significantly fueled investment into 5G Core deployments. These deployments empower operators to optimize network efficiency, customize services dynamically, and scale up rapidly in response to surging demand. According to the GSMA, global 5G connections are forecasted to surpass 5 billion by 2030, underscoring the critical role of the 5G Core as the enabling technology behind this expansion. Moreover, the growing reliance on AI-driven orchestration, edge computing integration, and network slicing capabilities create unprecedented

opportunities for innovation. Nonetheless, the market faces challenges from high infrastructure costs and cybersecurity concerns, though these are expected to be counterbalanced by ongoing R&D and collaborative industry partnerships.

The detailed segments and sub-segments included in the report are:

By Component:

Solutions

Services

By Network Function:

Access and Mobility Management Function (AMF)

Policy Control Function (PCF)

Unified Data Management (UDM)

By Deployment Model:

Cloud

On-premises

By End User:

Telecom Operators

Enterprises

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Among the diverse segments, Solutions are anticipated to dominate the market throughout the forecast horizon. The dominance of solutions stems from the sheer necessity of robust, cloud-native platforms that allow operators to manage dynamic network functions efficiently. Solutions form the structural backbone, driving interoperability, enhancing flexibility, and supporting network slicing at scale. While services are vital in delivering integration and lifecycle management, the rapid scaling of customized solutions for enterprise and operator-specific requirements makes this segment a clear frontrunner.

When assessing revenue contribution, Cloud-based deployments currently lead the market due to their scalability, agility, and cost-effectiveness compared to traditional infrastructure. Telecom operators and enterprises are increasingly embracing cloud-native frameworks, enabling real-time responsiveness and accelerating innovation cycles. While on-premises deployments remain critical for enterprises that demand heightened control and security, it is the cloud model that generates the lion's share of revenue. As hybrid deployments gain traction, the synergy between cloud flexibility and localized control will likely fuel even stronger momentum.

From a geographical perspective, North America held the dominant market share in 2025, supported by early adoption of 5G networks, extensive telecom infrastructure, and strong investment in R&D by leading technology companies. The United States, in particular, benefits from both public and private funding that accelerates large-scale deployments across industries. Meanwhile, Asia Pacific is poised to be the fastest-

growing region during 2025–2035, fueled by massive consumer bases, government-backed initiatives, and surging demand for high-speed mobile connectivity in countries like China, India, and South Korea. Europe also remains a pivotal region, with strong emphasis on regulatory alignment and innovation-driven deployment strategies, particularly in Germany, France, and the UK.

Major market players included in this report are:

Huawei Technologies Co., Ltd.

Ericsson AB

Nokia Corporation

Cisco Systems, Inc.

Samsung Electronics Co., Ltd.

ZTE Corporation

NEC Corporation

Microsoft Corporation

IBM Corporation

Oracle Corporation

VMware, Inc.

Intel Corporation

Hewlett Packard Enterprise (HPE)

Qualcomm Technologies, Inc.

Google LLC

Global 5G Core Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of the competitive structure of the market.

Demand side and supply side analysis of the market.

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