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Global 5G From Space Market Size study & Forecast, by Components, Application, Vertical and Regional Forecasts 2025-2035

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Abstracts

Global 5G From Space Market is valued at approximately USD 0.5 billion in 2024 and is projected to expand at a staggering compound annual growth rate (CAGR) of 65.10% over the forecast period 2025–2035. As the digital infrastructure race accelerates across industries and continents, 5G From Space is poised to redefine the very foundation of global connectivity. This emerging technology envisions bridging terrestrial connectivity gaps by deploying satellites—both LEO (Low Earth Orbit) and GEO (Geostationary Orbit)—to enable ultra-fast, low-latency 5G services even in the most remote regions. At its core, the system integrates satellite-based hardware, user terminals, and service platforms to offer seamless mobile broadband and support massive IoT environments, transcending traditional network boundaries.

The extraordinary growth of this market is being propelled by the exponential increase in global data traffic, heightened demand for latency-free communication in remote and maritime zones, and the surging rollout of autonomous systems across industries. Governments and enterprises alike are embracing space-based 5G infrastructure to meet their digital transformation agendas and support national security frameworks. With private space companies entering into multi-billion-dollar satellite deployment initiatives and strategic partnerships with telecom giants, the commercialization of 5G via satellite is no longer a distant frontier—it's a booming reality. Applications in eMBB (Enhanced Mobile Broadband), mMTC (Massive Machine Type Communications), and URLLC (Ultra-Reliable Low-Latency Communications) are witnessing explosive traction across defense, smart cities, manufacturing automation, and mobility sectors.

Regionally, North America commands a dominant position owing to early satellite mega-constellation initiatives from U.S.-based firms and massive investments in space-tech

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infrastructure. Europe, driven by ESA-led collaborations and 6G vision plans, is witnessing increased satellite R&D across France, Germany, and the Nordics. Meanwhile, Asia Pacific is expected to showcase the fastest growth due to heightened adoption in countries like China, India, Japan, and South Korea, where national space agencies and private firms are actively pursuing LEO satellite deployment for national 5G coverage. The Middle East and Latin America, though in nascent phases, are anticipated to emerge as strategic zones for cross-border 5G connectivity through satellite-supported frameworks.

Major market player included in this report are:

SpaceX (Starlink)

OneWeb

AST SpaceMobile

Thales Alenia Space

Telesat

Lockheed Martin Corporation

Amazon (Project Kuiper)

Hughes Network Systems

Boeing

Ericsson

Nokia

Qualcomm Technologies Inc.

China Aerospace Science and Technology Corporation (CASC)

Inmarsat

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SES S.A.

Global 5G From Space 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 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:

By Components:

Hardware

Satellites

User Terminals

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Services

By Application:

Enhanced Mobile Broadband (eMBB)

Ultra-Reliable and Low Latency Communication (URLLC)

Massive Machine-Type Communications (mMTC)

By Vertical:

(To be detailed as per dataset)

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

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- 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

Key Takeaways:

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

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Annualized revenues and regional level analysis for each market segment.

Detailed analysis of 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 competitive structure of the market.

Demand side and supply side analysis of the market.

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