

Global Satellite NTN Market Size study & Forecast, by Application and Type, and Regional Forecasts 2025-2035

<https://marketpublishers.com/r/S149496C3835EN.html>

Date: June 2025

Pages: 285

Price: US\$ 3,750.00 (Single User License)

ID: S149496C3835EN

Abstracts

Global Satellite Non-Terrestrial Network (NTN) Market is valued at approximately USD 3.98 billion in 2024 and is projected to expand at a robust CAGR of 6.10% during the forecast period from 2025 to 2035. Satellite NTN technologies are rapidly becoming the cornerstone of next-generation connectivity, particularly in regions underserved or unreachable by terrestrial infrastructure. This burgeoning field of communication leverages satellite constellations—both geostationary and low-earth orbit (LEO)—to offer seamless, global coverage and low-latency services. As industries embrace digital transformation and governments aim to bridge the digital divide, NTNs are poised to fulfill critical roles across defense, maritime, aviation, agriculture, and remote field operations, serving as high-reliability alternatives or supplements to ground-based networks.

The momentum behind the Satellite NTN market is being driven by several macro and micro trends converging to reshape the global telecom landscape. The advent of 5G and the rise of hybrid network architectures have catalyzed investment into satellite communication infrastructure, as stakeholders seek to offload data traffic and bolster resilience. Technological breakthroughs—ranging from software-defined payloads to high-throughput satellites (HTS)—are further enabling flexible and adaptive communication systems. Furthermore, the surge in IoT-based applications in remote or mobile environments, coupled with the rising dependency on unmanned aerial vehicles and connected devices, is pushing NTN systems from niche to necessity. Nonetheless, high initial capital investment and complex regulatory licensing frameworks remain key impediments to seamless deployment.

Regionally, North America stands out as the largest revenue contributor to the Satellite

NTN market, buoyed by its robust aerospace and telecommunications ecosystem, extensive government funding, and rapid integration of satellite services into defense and commercial sectors. The United States, in particular, is spearheading advancements in LEO mega-constellations with contributions from firms like SpaceX and Amazon's Project Kuiper. Europe is emerging as a formidable player, with the European Space Agency and private ventures like OneWeb accelerating development through public-private partnerships. Meanwhile, Asia Pacific is anticipated to exhibit the fastest CAGR during the forecast period, driven by the aggressive satellite launch programs of India, China, and Japan, and growing rural digitization initiatives. These countries are also fostering regulatory reforms to catalyze private sector involvement in the space-based communication sector.

Major market player included in this report are:

OneWeb

SpaceX (Starlink)

Thales Alenia Space

AST SpaceMobile

Inmarsat

Iridium Communications Inc.

SES S.A.

Eutelsat Communications SA

Telesat Canada

Hughes Network Systems, LLC

Boeing

Viasat Inc.

Airbus

Lockheed Martin Corporation

Amazon (Project Kuiper)

Global Satellite NTN 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 Application:

Defense & Military

Maritime

Aviation

Enterprise & IoT

Public Safety

Consumer Broadband

By Type:

GEO (Geostationary Earth Orbit)

LEO (Low Earth Orbit)

MEO (Medium Earth Orbit)

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

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 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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