

## **Global 5G NTN Market Report and Forecast 2024-2032**

Market Report | 2024-07-18 | 161 pages | EMR Inc.

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### **Report description:**

Global 5G NTN Market Report and Forecast 2024-2032

Market Outlook

According to the report by Expert Market Research (EMR), the global 5G NTN market size reached a value of around USD 4.51 billion in 2023. Aided by the increasing demand for seamless and ubiquitous connectivity and the growing applications of 5G NTN across various sectors, the market is projected to grow at a CAGR of 34.7% between 2024 and 2032 to reach a value of nearly USD 65.87 billion by 2032.

5G NTN represents a paradigm shift in communication technology, integrating satellite and terrestrial networks to deliver global coverage and high-speed connectivity. This technology plays a pivotal role in bridging the digital divide by providing reliable internet access to remote and underserved regions. Furthermore, 5G NTN enhances communication resilience and supports a wide range of applications, including IoT, autonomous vehicles, and disaster recovery operations.

The increasing demand for seamless and ubiquitous connectivity is driving the global 5G NTN market growth. With the exponential growth in data consumption and the proliferation of connected devices, there is a pressing need for robust and resilient communication networks. 5G NTN addresses this demand by providing high-speed internet access and ensuring connectivity in areas where terrestrial networks are insufficient or unavailable.

The growing applications of 5G NTN across various sectors also play a significant role in propelling the market. In the transportation sector, 5G NTN enables reliable communication for autonomous vehicles and enhances navigation and safety systems. As per the 5G NTN market analysis, in the healthcare sector, it facilitates remote diagnostics and telemedicine, improving access to healthcare services in remote areas. Additionally, the technology supports critical communication in disaster recovery operations, ensuring connectivity in emergency situations.

Moreover, the increasing focus on IoT and smart cities has further contributed to the market growth. 5G NTN provides the necessary infrastructure to support a wide range of IoT applications, including smart grids, environmental monitoring, and smart agriculture. This has led to a surge in demand for 5G NTN, as it enables efficient data collection and real-time communication between connected devices, further contributing to the 5G NTN market share.

The market has witnessed several key developments that have significantly influenced its growth. The increasing investments in satellite technology and the development of advanced satellite communication systems have led to the deployment of

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high-capacity satellites, enhancing the capabilities of 5G NTN. This trend is expected to continue, driven by the growing demand for high-speed connectivity and the need to expand network coverage.

The 5G NTN market outlook is positive amid the trend of satellite mega-constellations gaining traction among market players, leading to the deployment of large-scale satellite networks that enhance the capabilities of 5G NTN. This trend is expected to continue, driven by the increasing demand for high-speed connectivity and the need to expand network coverage.

The collaboration between satellite operators and telecom companies is also expected to drive the 5G NTN market expansion. By leveraging their respective strengths, these collaborations aim to develop integrated networks that provide seamless connectivity across terrestrial and non-terrestrial networks. This has led to the development of innovative solutions and the deployment of 5G NTN infrastructure on a global scale.

The mining sector is a significant user of the technology as it provides dependable and high-speed wireless connectivity for mining operations and remote sites. With mining locations becoming more isolated, terrestrial networks may not be reliable, leading to an increasing need for 5G NTN. In the mining sector, there is a growing demand for the 5G NTN to facilitate real-time communications, monitoring, and control, as well as to manage the deployment of advanced technologies and connected devices. The relatively lower costs and ease of setup of 5G NTN are also contributing to its adoption in the mining sector.

#### Market Segmentation □

The 5G NTN market can be divided based on component, platform, application, location, end use industry, and region.

#### Market Breakup by Component

- Hardware
- Solutions
- Services

#### Market Breakup by Platform

- UAS Platform
- LEO Satellite
- MEO Satellite
- GEO Satellite

#### Market Breakup by Application

- EMBB
- URLLC
- MMTC

#### Market Breakup by Location

- Urban
- Rural
- Remote
- Isolated

#### Market Breakup by End Use Industry

- Maritime
- Aerospace and Defence
- Government
- Mining

#### Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

#### Competitive Landscape

The EMR report looks into the market shares, plant turnarounds, capacities, investments, and mergers and acquisitions, among

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other major developments, of the leading companies operating in the global 5G NTN market. Some of the major players explored in the report by Expert Market Research are as follows:

- Samsung Electronics
- Gatehouse Satcom A/S.
- Gilat Satellite Networks Ltd.
- SoftBank Corp.
- Rohde & Schwarz USA, Inc.
- MediaTek Inc.
- ZTE Corporation
- Omnispace, LLC
- AST & Science, LLC
- Telefonica, S.A
- Others

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\*We at Expert Market Research always strive to provide you with the latest information. The numbers in the article are only indicative and may be different from the actual report.

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