

Global 5G in Aerospace & Defense Market Size study, by Communication Infrastructure (Macro Cell, Small Cell), by Operational Frequency (High, Low, Medium), by Core Network Technology (Fog Computing, Mobile Edge Computing, Network Functions Virtualization, Software-Defined Networking), by End Use (Aircraft, Airport, Homeland Security, Military) and Regional Forecasts 2022-2032

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Abstracts

Global 5G in Aerospace & Defense Market is valued approximately at USD 1.27 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 31.57% over the forecast period 2024-2032. The 5G in aerospace and defense market involves the deployment of fifth-generation wireless communication technology within the aerospace and defense sectors, aiming to enhance mission-critical services through ultra-reliable, low-latency communication, high-speed data transfer, and seamless connectivity across devices, sensors, and systems. Key applications include military communications, unmanned aerial vehicles (UAVs), air traffic control systems, aircraft operations support, satellite communication networks, and defense infrastructure. The increasing need for secure real-time communication across various domains such as land, air, sea, or space in dynamic digital battlefields, along with advancements in satellite communication technologies offering global connectivity with reduced latency through terrestrial networks, supports the 5G network's adoption.

Despite the high initial investment costs related to infrastructure deployment and security concerns surrounding 5G network implementation, the market is poised for growth. The ongoing introduction of technological advancements for the military &

defense sector and the deployment of autonomous and connected aircraft are expected to boost market expansion in the anticipated years. Macro cells, providing extensive range and capacity required for various missions, and small cells, delivering increased network capacity within confined spaces, are integral parts of 5G network deployments, supporting mission-critical communications within defense operations.

The market segmentation by operational frequency underscores the importance of high-frequency bands for advanced applications such as UAVs and high-speed satellite communication, low-frequency bands for long-range communication in early warning systems and remote sensing platforms, and medium-frequency bands for versatile applications like tactical communication networks and electronic warfare solutions. Additionally, core network technologies such as fog computing, mobile edge computing, network functions virtualization, and software-defined networking are transforming the aerospace and defense sectors by offering decentralized data processing capabilities, greater agility, and improved network management.

The key regions considered for the global 5G in aerospace & defense market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America is accounted as the dominating region owing to the rapid 5G development, with significant investments in research initiatives exploring potential military use cases. Whereas, the Asia Pacific region is expected to witness the fastest CAGR due to the increasing deployment of 5G coupled with rising military modernization efforts among key countries.

Major market players included in this report are:

Airspan Networks Holdings Inc.

Akkodis Group AG

Analog Devices, Inc.

AT&T Inc.

AttoCore Ltd.

Cisco Systems, Inc.

Cubic Corporation

Deutsche Telekom AG

Fujitsu Limited

General Electric Company

The detailed segments and sub-segment of the market are explained below:

By Communication Infrastructure:

Macro Cell

Small Cell

By Operational Frequency:

High

Low

Medium

By Core Network Technology:

Fog Computing

Mobile Edge Computing

Network Functions Virtualization

Software-Defined Networking

By End Use:

Aircraft

Airport

Homeland Security

Military

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

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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