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5G in Defense Market Report by Communication Infrastructure (Small Cell, Macro Cell, Radio Access Network (RAN)), Core Network Technology (Software-Defined Networking (SDN), Fog Computing (FC), Mobile Edge Computing (MEC), Network Functions Virtualization (NFV)), Network Type (Enhanced Mobile Broadband (EMBB), Ultra-Reliable Low-Latency Communications (URLLC), Massive Machine Type Communications (MMTC)), Chipset (Application-Specific Integrated Circuit (ASIC) Chipset, Radio Frequency Integrated Circuit (RFIC) Chipset, Millimeter Wave (mmWave) Chipset), Platform (Land, Naval, Airborne), and Region 2024-2032

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Abstracts

The global 5G in defense market size reached US$ 1,694.2 Million in 2023. Looking forward, the market is expected to reach US$ 32,425.2 Million by 2032, exhibiting a growth rate (CAGR) of 38% during 2024-2032.

5G refers to the fifth-generation mobile network technology that carries wireless communication and connects objects, machines, people, and devices. It comprises various networks, such as enhanced mobile broadband (eMBB), massive machine type communication (MMTC), and ultra-reliable low-latency communications (URLLC). Consequently, it finds widespread applications across various industries. For instance, particularly in the defense sector, 5G is widely used to improve and process

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intelligence, surveillance, and reconnaissance (ISR) systems, streamline logistics systems and enable new methods of command and control (C2). It further assists in quick response time and faster transmission of videos and images to achieve real-time battlefield results. The network is also widely used to provide enemy infantry real-time operation information at inconvenient, dangerous, and remote areas. It is also utilized to transmit data over various wireless broadband connections to enhance speed and bandwidth at a multigigabit speed. It also offers ultra-low latency, enhanced network capacity, uniform user experience, high-speed data, and increased reliability.

5G in Defense Market Trends:
The widespread adoption of autonomous defense vehicles and robots in the defense sector is one of the key factors primarily driving the market growth. Additionally, the rising use of 5G in radars to detect and track multiple targets and the surging numbers of cross-border and territorial conflicts are favoring the market growth. Moreover, various technological advancements, such as the integration of the Internet of Things (IoT), which enables the communication between multiple sensors and connected devices and facilitates high-speed data connectivity, are boosting the market growth. 5G services are rapidly being adopted in augmented reality (AR) for efficient maintenance of gadgets, vehicles, and equipment to train military personnel, which is positively impacting the market growth. Apart from this, the rapid upgradation of defense infrastructure and the implementation of various government initiatives to support 5G technology are some of the factors creating a positive outlook for the market.

Key Market Segmentation:
IMARC Group provides an analysis of the key trends in each sub-segment of the global 5G in defense market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on communication infrastructure, core network technology, network type, chipset and platform.

Breakup by Communication Infrastructure:

Small Cell
Macro Cell
Radio Access Network (RAN)

Breakup by Core Network Technology:

Software-Defined Networking (SDN)
Fog Computing (FC)

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Mobile Edge Computing (MEC)
Network Functions Virtualization (NFV)

Breakup by Network Type:

Enhanced Mobile Broadband (EMBB)
Ultra-Reliable Low-Latency Communications (URLLC)
Massive Machine Type Communications (MMTC)

Breakup by Chipset:

Application-Specific Integrated Circuit (ASIC) Chipset
Radio Frequency Integrated Circuit (RFIC) Chipset
Millimeter Wave (mmWave) Chipset

Breakup by Platform:

Land
Naval
Airborne

Breakup by Region:

North America
United States
Canada
Asia-Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy

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Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:
The competitive landscape of the industry has also been examined along with the profiles of the key players being Cisco Systems Inc., L3harris Technologies Inc., Ligado Networks, Nokia Corporation, Nvidia Corporation, Qualcomm Incorporated, Raytheon Technologies Corporation, Samsung Electronics Co. Ltd, Sierra Wireless Inc, Telefonaktiebolaget LM Ericsson, Thales Group and Wind River Systems Inc. (Intel Corporation).

Key Questions Answered in This Report

1. What was the size of the global 5G in defense market in 2023?
2. What is the expected growth rate of the global 5G in defense market during 2024-2032?
3. What are the key factors driving the global 5G in defense market?
4. What has been the impact of COVID-19 on the global 5G in defense market?
5. What is the breakup of the global 5G in defense market based on the communication infrastructure?
6. What is the breakup of the global 5G in defense market based on the core network technology?
7. What is the breakup of the global 5G in defense market based on the network type?
8. What is the breakup of the global 5G in defense market based on the chipset?
9. What is the breakup of the global 5G in defense market based on the platform?
10. What are the key regions in the global 5G in defense market?
11. Who are the key players/companies in the global 5G in defense market?

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Contents

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10 MARKET BREAKUP BY PLATFORM

11 MARKET BREAKUP BY REGION

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