

5G in Defense Market by Communication Infrastructure (Small Cell, Macro Cell, and Radio Access Network (RAN)), Core Network Technology (Software-Defined Networking (SDN), Fog Computing (FC), Mobile Edge Computing (MEC), and Network Functions Virtualization (NFV)), Network Type (Enhanced Mobile Broadband (eMBB), Ultra-Reliable Low-Latency Communications (URLLC), and Massive Machine Type Communications (MMTC)), Chipset (Application-specific Integrated Circuit (ASIC) Chipset, Radio Frequency Integrated Circuit (RFIC) Chipset, and Millimeter Wave (mmWave) Chipset), and Platform (Land, Naval, and Airborne): Global Opportunity Analysis and Industry Forecast, 2021–2030

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Abstracts

5G communication technology is characterized by extraordinary speeds, low latency, and greater transmission density, which is fit to justify the requirements of several military applications. In the defense sector, the superior characteristics of 5G networks are expected to provide new opportunities for military units undertaking defense operations to make better decisions in risky setups. It will increase the capabilities of military drones and combat robots by providing them the ability to recognize, follow, and target individuals on the basis of facial identification and other features. Moreover, 5G will offer more capabilities to the military when combined with other innovations like the

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defense cloud and artificial intelligence.

Increase in autonomous defense vehicles, drones, and robots and rise in support of government toward the development of 5G are expected to drive the global 5G in defense market growth during the forecast period. However, cybersecurity threats to 5G network and high infrastructure costs for the deployment of 5G are anticipated to hamper the growth of the market during the forecast period. Moreover, technological advancements in 5G network and upgradation of military bases are expected to offer lucrative opportunities for the market in future.

The 5G in defense market is segmented on the basis of communication infrastructure, core network technology, network type, chipset, platform, and region. Based on communication infrastructure, it is further divided into small cell, macro cell, and radio access network (RAN). Based on core network technology, the market is categorized into software defined networking (SDN), fog computing (FC), mobile edge computing (MEC), and network functions virtualization (NFV). Depending on network type, it is fragmented into enhanced mobile broadband (eMBB), ultra-reliable low-latency communication (URLLC) and massive machine type communications (mMTC). On the basis of chipset, the market is classified into application specific integrated circuit (ASIC) chipset, radio-frequency integrated circuit (RFIC) chipset, and millimeter wave chipset. Based on platform, the market is distributed into land, naval, and airborne. Region wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

KEY BENEFITS FOR STAKEHOLDERS

This study presents the analytical depiction of the global 5G in defense market analysis along with the current trends and future estimations to depict imminent investment pockets.

The overall 5G in defense market opportunity is determined by understanding profitable trends to gain a stronger foothold.

The report presents information related to the key drivers, restraints, and opportunities of the global 5G in defense market with a detailed impact analysis.

The current 5G in defense market is quantitatively analyzed from 2020 to 2030 to benchmark the



financial competency.

Porter's five forces analysis illustrates the potency of the buyers and suppliers in the industry.

KEY MARKET SEGMENTS

By Communication Infrastructure

Small Cell

Macro Cell

Radio Access Network (RAN)

By Core Network Technology

Software-Defined Networking (SDN)

Fog Computing (FC)

Mobile Edge Computing (MEC)

Network Functions Virtualization (NFV)

By Network Type

Enhanced Mobile Broadband (eMBB)

Ultra-Reliable Low-Latency Communications (URLLC)

Massive Machine Type Communications (MMTC)

By Chipset

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Application-Specific Integrated Circuit (ASIC) Chipset

Radio Frequency Integrated Circuit (RFIC) Chipset

Millimeter Wave (mmWave) Chipset

By Platform

Land

Naval

Airborne

By Region

North America

U.S.

Canada

Europe

Germany

UK

France

Russia

Rest of Europe

Asia-Pacific

China

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Japan

India

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

KEY PLAYERS

Telefonaktiebolaget LM Ericsson

Huawei Investment & Holding Co., Ltd

Nokia Corporation

Samsung Electronics Co., Ltd

NEC Corporation

Thales Group

L3Harris Technologies, Inc.

Raytheon Technologies Corporation

Ligado Networks

Wind River Systems, Inc.



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