

5G in Defense Market: Segmented: 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 Platform (Land, Naval, Airborne) And Region – Global Analysis of Market Size, Share & Trends For 2019–2021 And Forecasts To 2031

<https://marketpublishers.com/r/520ACA536F42EN.html>

Date: May 2022

Pages: 275

Price: US\$ 4,950.00 (Single User License)

ID: 520ACA536F42EN

Abstracts

[170 + Pages Research Report] 5G in the Defense Market to exceed USD 70,767.5 million by 2031 from USD 501.2 million in 2021 at a CAGR of 64.1% in the coming years, i.e., 2021-2031.

Product Overview

Instant situational awareness anywhere on Earth, smart hypersonic weapons with on-the-fly retargeting, rich access to mission-critical data on the leading edge of the battlefield, and unmanned drones that can fly safely alongside passenger aircraft in commercial airspace are all possibilities for 5G. 5G promises ubiquitous high-speed data connectivity, which will enable vastly improved intelligence, reconnaissance (ISR), surveillance, as well as faster and more secure command and control, more efficient

logistics, swarming unmanned vehicles, and widespread use of augmented and virtual reality for simulation, mission rehearsal, and training.

Market Highlights

Global 5G in Defense Market is expected to register a remarkable CAGR of 64.1% by the end of 2031.

Increasing country spending on 5G technologies is predicted to take the global 5G in defense market forward throughout the forecast period. Increased need for IoT, greater dependency on big data for decision making, and growing demand for automation in defense and military applications, among many other factors, are projected to boost global sales of the stated market.

Global 5G in Defense Market: Segments

The small Cell segment is expected to hold a higher CAGR over the forecast period 2021-31

The expansion of the small cell segment can be ascribed to 5G network operators' large-scale deployment of tiny cells. The data communication speed is projected to considerably grow as the 5G network is further deployed. Small cells are expected to play a key role in the market for 5G communication infrastructure since they can aid with 5G deployment.

The Mobile Edge Computing (MEC) segment is expected to register a maximum CAGR during 2021-31

With the increased use of MEC-enabled 5G wireless systems that will offer low latency and high bandwidth access to networks, the Mobile Edge Computing section of the Core Network Technology category is predicted to grow at a quicker rate. Furthermore, MEC technology enables data gathering and processing at the network's edge, simplifying real-time analytics, minimizing unnecessary data storage, and enhancing network security.

Market Dynamics

Drivers

Increasing adoption of connected and autonomous devices

Up to one million devices can be supported by 5G technology in an area of about one square kilometer. This means that a 5G network may connect various devices, such as

sensors, to each other. All autonomous robots or platforms rely on a network to send and receive data. This data is evaluated and then sent to the systems over the network, which are subsequently used by the automated systems to take action. Such systems will perform more efficiently with a network that has a higher speed and lower latency.

Technological Advancements in 5G are another major booster

The demand for fast and reliable transmission networks has increased as technology evolves around the world to allow the connectivity of advanced devices including robots, sensors, drones, and autonomous vehicles utilized by defense agencies. The 5G network offers real-time connectivity, machine-to-machine interaction, high network speed, and other capabilities that aid in the interconnection of smart devices used by homeland security and intelligence organizations in intelligence and surveillance activities.

Restraint

Lack of in-depth knowledge of technology restrains the market growth

5G infrastructure for defense is still in its early stages of development, companies working on it must deal with challenges such as access to information, experimenting with military platforms, and the accessibility of regulations for development and testing, among other things. Few restricting issues include a dearth of competent labor and the military's early adoption stage of 5G technology with little in-depth knowledge of the technology.

Global 5G in Defense Market: Key Players

Telefonaktiebolaget LM Ericsson

Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis

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.

Global 5G in Defense Market: Regions

Due to growing investments in 5G technology by the US Department of Defense, North America is expected to lead the market during the forecast period. The United States is expected to be the world's top developer and operator of 5G technology, with a substantial share of the worldwide market going to the North American region. In defense, 5G technology improves the processing and functionality of ISR (intelligence, surveillance, and reconnaissance) systems, enables new command and control systems, improve augmented and virtual reality applications, modernizes maintenance processes, and improves logistics supply efficiency using technologies like blockchain.

Impact of COVID-19 on 5G in the Defense Market

The COVID-19 outbreak wreaked havoc on economies around the world, particularly in the defense sector, where high-investment technology like 5G is being deployed. Due to the current economic climate and disruptions in the supply chain of crucial components, the development and testing of 5G technologies for the defense sector have been placed on hold. Due to a delay in spectrum auctions, a lag in regulatory timescales, a constrained workforce for network roll-out, decreased capital and operating expenditures, and a decline in technological breakthroughs, the pandemic had a moderate impact on communication systems suppliers and operators.

Global 5G in Defense Market is further segmented by region into:

North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – the United States and Canada

Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Latin America

Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United Kingdom, France, Germany, Russia, and Rest of Europe

Asia Pacific Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – India, China, South Korea, Japan, and Rest of APAC

the Middle East and Africa Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – South Africa and Rest of the Middle East and Africa

Global 5G in Defense Market report also contains analysis on:

5G in Defense 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
Application-specific Integrated Circuit (ASIC) Chipset
Radio Frequency Integrated Circuit (RFIC) Chipset
Millimeter-Wave (mmWave) Chipset
By Platform
Land
Naval
Airborne
5G in Defense Market Dynamics
5G in Defense Market Size
Supply & Demand
Current Trends/Issues/Challenges
Competition & Companies Involved in the Market
Value Chain of the Market
Market Drivers and Restraints
5G in Defense Market Report Scope and Segmentation
Report Attribute Details
The market size value in 2021 USD 501.2 million
The revenue forecast in 2031 USD 70,767.5 million
Growth Rate

CAGR of 64.1% from 2020 to 2031

The base year for estimation 2020

Quantitative units Revenue in USD million and CAGR from 2020 to 2031

Report coverage

Revenue forecast, company ranking, competitive landscape, growth factors, and trends
segments segments segments segments segments segments segments segments

Segments covered

Communication Infrastructure, Core Network Technology, Network Type, Chipset, Platform, and Region

Regional scope North America, Latin America, Europe, Asia Pacific, Middle East & Africa (MEA)

Key companies profiled 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, and Wind River Systems, Inc.

Contents

1. EXECUTIVE SUMMARY

2. GLOBAL 5G IN DEFENSE MARKET

- 2.1. Product Overview
- 2.2. Market Definition
- 2.3. Segmentation
- 2.4. Assumptions and Acronyms

3. RESEARCH METHODOLOGY

- 3.1. Research Objectives
- 3.2. Primary Research
- 3.3. Secondary Research
- 3.4. Forecast Model
- 3.5. Market Size Estimation

4. AVERAGE PRICING ANALYSIS

5. MACRO-ECONOMIC INDICATORS

6. MARKET DYNAMICS

- 6.1. Growth Drivers
- 6.2. Restraints
- 6.3. Opportunity
- 6.4. Trends

7. CORRELATION & REGRESSION ANALYSIS

- 7.1. Correlation Matrix
- 7.2. Regression Matrix

8. RECENT DEVELOPMENT, POLICIES & REGULATORY LANDSCAPE

9. RISK ANALYSIS

9.1. Demand Risk Analysis

9.2. Supply Risk Analysis

10. GLOBAL 5G IN DEFENSE MARKET ANALYSIS

10.1. Porter Five Forces

10.1.1. Threat of New Entrants

10.1.2. Bargaining Power of Suppliers

10.1.3. Threat of Substitutes

10.1.4. Rivalry

10.2. PEST Analysis

10.2.1. Political

10.2.2. Economic

10.2.3. Social

10.2.4. Technological

11. GLOBAL 5G IN DEFENSE MARKET

11.1. Market Size & forecast, 2020A-2031F

11.1.1. By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

11.1.2. By Volume (Million Units) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12. GLOBAL 5G IN DEFENSE MARKET: MARKET SEGMENTATION

12.1. By Regions

12.1.1. North America:(U.S. and Canada), By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.1.2. Latin America: (Brazil, Mexico, and Latin America), By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.1.3. Europe: (Germany, UK, France, Russia, Rest of Europe), By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.1.4. Asia-Pacific: (China, India, Japan, South Korea, Rest of Asia Pacific), By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.1.5. the Middle East and Africa: (South Africa, the UAE, Turkey, and Rest of the Middle East and Africa), By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

12.2. By Communication Infrastructure: Market Share (2020-2031F)

12.2.1. Small Cell, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

- 12.2.2. Macro Cell, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F
 - 12.2.3. Radio Access Network (RAN), By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F
- 12.3. By Core Technology Network: Market Share (2020-2031F)
 - 12.3.1. Software-Defined Networking (SDN), By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F
- 12.4. Fog Computing (FC), By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F
 - 12.4.1. Mobile Edge Computing (MEC), By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F
 - 12.4.2. Network Functions Virtualization (NFV), By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F
- 12.5. By Network Type: Market Share (2020-2031F)
 - 12.5.1. Enhanced Mobile Broadband (eMBB), By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F
 - 12.5.2. Ultra-Reliable Low-Latency Communications (URLLC), By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F
 - 12.5.3. Massive Machine Type Communications (MMTC), By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F
- 12.6. By Chipset: Market Share (2020-2031F)
 - 12.6.1. Application-specific Integrated Circuit (ASIC) Chipset, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F
 - 12.6.2. Radio Frequency Integrated Circuit (RFIC) Chipset, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F
 - 12.6.3. Millimeter Wave (mmWave) Chipset, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F
- 12.7. By Platform: Market Share (2020-2031F)
 - 12.7.1. Land, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F
 - 12.7.2. Naval, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F
 - 12.7.3. Airborne, By Value (USD Million) 2020-2031F; Y-o-Y Growth (%) 2021-2031F

13. COMPANY PROFILE

- 13.1. Telefonaktiebolaget LM Ericsson
 - 13.1.1. Company Overview
 - 13.1.2. Company Total Revenue (Financials)
 - 13.1.3. Market Potential
 - 13.1.4. Global Presence

- 13.1.5. Key Performance Indicators
- 13.1.6. SWOT Analysis
- 13.1.7. Product Launch
- 13.2. Huawei Investment & Holding Co., Ltd
- 13.3. Nokia Corporation
- 13.4. Samsung Electronics Co., Ltd
- 13.5. NEC Corporation
- 13.6. Thales Group
- 13.7. L3Harris Technologies, Inc.
- 13.8. Raytheon Technologies Corporation
- 13.9. Ligado Networks
- 13.10. Wind River Systems, Inc.
 - 13.10.1. Consultant Recommendation
 - 13.10.2. The above-given segmentations and companies could be subjected to further modification based on in-depth feasibility studies conducted for the final deliverable.

I would like to order

Product name: 5G in Defense Market: Segmented: 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 Platform (Land, Naval, Airborne) And Region – Global Analysis of Market Size, Share & Trends For 2019–2021 And Forecasts To 2031

Product link: <https://marketpublishers.com/r/520ACA536F42EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/520ACA536F42EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970