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Europe Military Antenna Market Forecast to 2030 - Regional Analysis - by Type (Aperture Antennas, Dipole Antennas, Travelling Wave Antennas, Monopole Antennas, Loop Antennas, Array Antennas, and Others), Frequency (High Frequency, Very High Frequency, and Ultra-High Frequency), Platform (Marine, Ground, and Airborne), and Application (Communication, Telemetry, Electronic Warfare, Surveillance, and Navigation)

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Abstracts

The Europe military antenna market was valued at US$ 1,031.68 million in 2022 and is expected to reach US$ 1,562.96 million by 2030; it is estimated to record a CAGR of 5.3% from 2022 to 2030.

Surging Defense Expenditure Drives Europe Military Antenna Market

The evolving modern warfare scenario has compelled governments of various countries across the globe to assign significant funds and financial aid toward respective defense and military forces. The defense budget allocation supports army and military forces to obtain enhanced technologies and equipment from domestic or international developers. On the other hand, military and army vehicle upgrades are on the rise owing to growing defense budget allocation. Furthermore, the increasing governmental expenditure showcases the government's focus on strengthening national security forces. There is an increased need to reinforce military and border security forces with advanced surveillance, communication, navigation equipment, artilleries, armaments, and vehicles, among others; hence, military forces across the globe are focusing on

investing significant amounts in procuring advanced technologies. Defense forces' constant inclination to acquire new technologies for noncombat and combat operations further boosts military expenditure worldwide.

As per the Stockholm International Peace Research Institute (SIPRI), global military expenditure increased to US$ 2,148 billion in 2022, representing a 3.5% increase from 2021. The US, China, India, Russia, and Saudi Arabia were the top five spenders in 2022, which accounted for 63% of the global expenditure.

Increasing military expenditure encourages the incorporation of advanced warfare technologies such as high-range antennas, advanced communication devices, unmanned vehicles, radars, missile detection systems, and surveillance and navigation systems. In addition, a high military budget supports countries in assigning resources for the advancement and upgradation of their existing air, ground-based, and naval defense systems. This comprises enhancing or replacing outdated and mature communication, surveillance, and navigation systems with more advanced and capable ones by incorporating high-end antennas. Moreover, in October 2023, Keysight Technologies, Inc. launched the Phased Array Antenna Control and Calibration solution that facilitates satellite designers fabricating active, electronically scanned arrays specifically for satellite communications applications to test their designs in time of validation properly. The solution increases signal-pointing accuracy by enhancing the frequency of active antenna array components. In addition, in 2023, Russia introduced the BTR-22 8?8 armored vehicle at the Army-2023 ion near Moscow. In 2023, Russia unveiled an advanced Unmanned Armored Vehicle called Zubilo at the Army-2023 Expo. In 2023, The Polish Armaments Group declared three new contracts with Poland's MND Armament Agency for supplying approximately 400 light reconnaissance vehicles and wheeled armored personnel carriers, along with two contracts for the supply of Heavy Infantry Combat Vehicles. In 2023, The Polish government anticipated procuring approximately 1,000 Borsuk infantry fighting vehicles to replace the Soviet-era BWP-1. In 2023, the Spanish government declared the Veh?culo de Apoyo de Cadenas acquisition for the Land Army and procured 400 tracked armed vehicles with an investment of US$ 2.11 billion. As advanced army vehicles are a major application area of military antennas, the increase in military expenditure boosts the Europe military antenna market growth.

Europe Military Antenna Market Overview

Europe is one of the major regions in terms of advancement in the defense sector. The growing geopolitical instability among countries such as Ukraine and Russia are fueling the demand for strong and advanced surveillance and communication devices and systems in the military sector. Russia, Germany, France, Italy, and the UK are a few of the major countries in the region in terms of military expenditure. The proliferation of ground-based long-frequency antennas for larger area coverage is one of the major trends in the Europe military antenna market. Increasing integration of satellite-based communication devices for catering to airborne and naval force requirements is one of the key driving factors for the Europe military antenna market. The growing budget allocation for the defense sector in Russia, the UK, France, and Italy indicates the governmental emphasis on technological advancement in the military sector. In Central Europe, countries such as Poland, Romania, Hungary, and Slovakia are prominent countries that significantly contributed to the military expenditure in 2022. In Eastern Europe, Russia and Ukraine are the major countries that contribute to spending in the military sector. In addition, in Western Europe, the UK, Italy, France, Germany, Spain, and the Netherlands are major countries in terms of military expenditure. In 2022, Russia's military expenditure was US$ 86,373 million, while the UK's defense expenditure was US$ 68,462 million. In addition, Germany's military expenditure was US$ 55,759.7 million, and France reached US$ 53,638.7 million in terms of defense expenditure in 2022. The military expenditure primarily caters to technological development in terms of communication, telemetry, and navigation equipment for airborne, ground-based, and naval platforms. In 2023, Europe accounted for 8,793 units of military aircraft fleets. In 2023, Europe accounted for 627 units of naval vessels. In terms of naval vessels, Russia accounted for 265 units of naval vessels, followed by France, which had 65 units, and Italy, which had 56 units. There are 134 units of naval vessel orders commissioned in Europe.

A military antenna is used for real-time telemetry systems, remote communication, and signal transfer for navigation. The growing number of naval vessels is anticipated to boost the application of military antennas in Europe in the coming years. In addition, the invasion of Ukraine had a direct impact on military expenditure decisions in Western and Central Europe. This comprised multi-year development plans to improve expenditure from several governments. Strengthening the security forces with the usage of advanced technology devices that improve communication and overall information transfer is boosting the demand for military antennas in Europe.

Europe Military Antenna Market Revenue and Forecast to 2030 (US$ Million)

Europe Military Antenna Market Segmentation

The Europe military antenna market is segmented based on type, frequency, platform,

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application, and country.

Based on type, the Europe military antenna market is segmented into aperture antennas, dipole antennas, travelling wave antennas, monopole antennas, loop antennas, array antennas, and others. The dipole antennas segment held the largest share in 2022.

By frequency, the Europe military antenna market is segmented into high frequency, very high frequency, and ultra-high frequency. The high frequency segment held the largest share in 2022.

By platform, the Europe military antenna market is segmented into marine, ground, and airborne. The ground segment held the largest share in 2022.

In terms of application, the Europe military antenna market is categorized into communication, telemetry, electronic warfare, surveillance, and navigation. The communication segment held the largest share in 2022.

Based on country, the Europe military antenna market is segmented into Germany, France, Italy, the UK, Russia, and the Rest of Europe. Russia dominated the Europe military antenna market in 2022.

BAE Systems Plc, Comrod Communication AS, L3Harris Technologies Inc, Lockheed Martin Corp, Raytheon Technologies Corp, Rohde and Schwarz GmbH and Co KG, and Thales SA are some of the leading companies operating in the Europe military antenna market.

Contents

8. EUROPE MILITARY ANTENNA MARKET ANALYSIS - FREQUENCY

9. EUROPE MILITARY ANTENNA MARKET ANALYSIS - PLATFORM

10. EUROPE MILITARY ANTENNA MARKET ANALYSIS - APPLICATION

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List Of Tables

LIST OF TABLES

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