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Asia Pacific 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 Asia Pacific military antenna market was valued at US$ 941.66 million in 2022 and is expected to reach US$ 1,615.94 million by 2030; it is estimated to record a CAGR of 7.0% from 2022 to 2030.

Development of Unmanned Aerial Vehicle (UAV) Communication Systems Drives Asia Pacific Military Antenna Market

The increasing application of unmanned aerial vehicles for various purposes, including weapon delivery, surveillance, and disruption, boosts the demand for military antennas. Navigation, communication, and surveillance systems are crucial in detecting and tracking UAVs, providing early warning and situational awareness. The increasing adoption of UAVs requires advanced military antennas with improved detection and signal-catching capabilities to counter these threats effectively. As the threat from UAVs becomes more evident, governments and defense organizations worldwide prioritize developing and acquiring communication and surveillance defense systems to counter this evolving threat. In 2022, MP Antenna and Unmanned Systems Communications

partnered with Unmanned Systems Technology to launch the Multi-Polarized Antennas for long-range UAV communications. Thus, the development of UAV defense communication systems is likely to create lucrative opportunities for the growth of the Asia Pacific military antenna market in the coming years.

Asia Pacific Military Antenna Market Overview

India, Australia, China, Japan, and South Korea are a few of the major markets for military antennas in Asia Pacific. Growing focus on national security and increasing governmental initiatives toward boosting the development of the military and security infrastructure are a few of the factors boosting the demand for military antennas in Asia Pacific. In 2020, the military expenditure was US$ 497.4 billion, which increased to US$ 549.7 billion in 2021. In 2022, Asia Pacific's military expenditure was US$ 541.5 billion. In 2022, China dominated in terms of military expenditure, followed by India and South Korea. The majority of military expenditure is dedicated to meeting the requirement for advanced equipment, devices, aircraft, ships, and armored vehicles during modern war. Countries are focusing on advancing their military aircraft with new high-end aircraft equipped with the latest features and replacing the old aircraft.

With each passing year, the demand for advanced and more competent equipment and army vehicles is increasing in order to manage modern battlefield requirements. For instance, in 2023, the People's Liberation Army Air Force is increasing the number of combat aircraft in its inventory. It also integrates air-to-air missiles and develops a high-end air-to-surface stand-off weapon to further strengthen China's defense force. In 2023, South Korea's Korea Aerospace Industries introduced the KF-21 Boramae fighter jet prototype and advanced the development of the KAI Light Armed Helicopter. The Air Force is anticipated to procure 40 KF-21s by 2028, with strategies focused on getting an additional 80 jets into operation by 2032.

In 2023, Asia Pacific accounted 11,646 units of military aircraft fleets. The military antennas have potential applications in fighter jets and aircraft for facilitating stable communication, navigation, and surveillance. The Asia Pacific accounted for 1,312 units of naval vessels as of 2023, and it has ordered 99 units of naval vessels in the commissioned phase. Predominantly, corvettes and submarines are dominating in terms of the number of military units in Asia Pacific. China is dominating in terms of number of naval vessels in Asia Pacific, followed by South Korea, India, and Japan in 2023. Military antennas have major applications in the navy vessels to conduct communication, telemetry, and surveillance. In addition, it also helps in navigating the ships to the proper location in time of war. Furthermore, the proliferation of satellite communication and advanced technologies for remote communication and data transmission are a few key factors boosting the demand for military antennas in the Asia Pacific.

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

Asia Pacific Military Antenna Market Segmentation

The Asia Pacific military antenna market is segmented based on type, frequency, platform, application, and country.

Based on type, the Asia Pacific 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 Asia Pacific 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 Asia Pacific military antenna market is segmented into marine, ground, and airborne. The ground segment held the largest share in 2022.

In terms of application, the Asia Pacific 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 Asia Pacific military antenna market is segmented into Australia, China, India, Japan, South Korea, and the Rest of Asia Pacific. China dominated the Asia Pacific military antenna market in 2022.

BAE Systems Plc, Eylex Pty Ltd, L3Harris Technologies Inc, Lockheed Martin Corp, MTI Wireless Edge Ltd, Raytheon Technologies Corp, Rohde and Schwarz GmbH and Co KG, and Thales SA are some of the leading companies operating in the Asia Pacific military antenna market.

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