

# **Asia Pacific Air Defense Radar Market Forecast to 2030 - Regional Analysis - by Range (Long Range, Medium Range, and Short Range), Product Type (Synthetic Aperture and Moving Target Indicator Radar, Surveillance Radar, Airborne Early Warning Radar, Multi-Functional Radar, Weather Radar, and Others), System Type (Fixed And Portable), Platform (Ground-Based, Aircraft-Mounted, and Naval-Based), and Application (Ballistic Missile Defense, Identification Friend or Foe, Weather Forecasting, and Others)**

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## **Abstracts**

The Asia Pacific air defense radar market is expected to grow from US\$ 1,681.66 million in 2022 to US\$ 2,669.98 million by 2030. It is estimated to grow at a CAGR of 5.9% from 2022 to 2030.

Development of Miniaturized and Low-Cost Radars Fuel the Asia Pacific Air Defense Radar Market

The development of miniaturized and low-cost radars is due to technological advancements, such as improved semiconductor manufacturing processes and the miniaturization of associated components. These advancements enable the development of smaller, lighter, and more cost-effective radar systems or miniaturized radar systems compared to traditional ones without compromising performance. Their compact form makes them more accessible and adaptable to different operational

requirements and environments. This feature also allows easier integration of radars into various platforms, such as ground-based systems, naval vessels, or unmanned aerial vehicles (UAVs). The flexibility and adaptability of miniaturized radars make them suitable for diverse operational environments, expanding their market potential. Further, the various market players are focusing more on the cost efficiency of the air defense radar systems. For instance, radar systems such as multifunction radar systems offer enhanced operational efficiency by integrating multiple radar capabilities into a single platform. The ability to perform multiple tasks with a single system increases operational efficiency and cost-effectiveness. Thus, the market is witnessing the growing trend of miniaturized and low-cost radars development.

### Asia Pacific Air Defense Radar Market Overview

The air defense radar market in Asia Pacific (APAC) is experiencing significant growth. The increasing regional tensions and geopolitical dynamics have led countries in Asia Pacific to enhance their defense capabilities. As a result, there is a growing demand for advanced air defense systems, including radars, to safeguard national security and territorial integrity. Moreover, rapid modernization and upgrade programs for existing air defense systems drive the Asia Pacific Air Defense Radar Market. Many countries in the region are investing heavily in upgrading their military equipment to match the evolving threat landscape. Upgrading radar systems is a crucial aspect of this modernization effort, as it enables early detection, tracking, and interception of aerial threats such as missiles, aircraft, and drones. APAC is investing generously in military technologies. For instance, in 2022, major countries in APAC (considered in the scope) invested US\$ 541.4 billion in military technology. According to several military sources, the region accounted for more than 1,312 naval vessels in 2023. Also, countries such as China, India, Japan, and South Korea collaboratively commissioned ~52 naval vessels for future procurement across the region. This will further generate demand for air defense radar systems for naval vessels.

Advancements in radar technologies, such as active electronically scanned arrays (AESAs), have provided enhanced detection capabilities, increased operational range, and improved target tracking accuracy. These technological advancements have generated a surge in demand for next-generation air defense radar systems in Asia Pacific. Moreover, the rise of nontraditional security challenges, such as asymmetric warfare, terrorism, and cyber threats, has fueled the need for robust air defense radar systems. Governments are keen to develop comprehensive defense strategies encompassing conventional and unconventional threats, leading to increased investments in advanced radar technologies. Economic development and rise in

defense budgets of countries in the region also support the growth of the Asia Pacific Air Defense Radar Market. Many countries, including China, India, Japan, and South Korea, have allocated substantial funds to enhance their defense capabilities, including air defense systems. This financial commitment has created a favorable environment for the growth of the Asia Pacific air defense radar market.

## Asia Pacific Air Defense Radar Market Revenue and Forecast to 2030 (US\$ Million)

### Asia Pacific Air Defense Radar Market Segmentation

The Asia Pacific air defense radar market is segmented into function, range, system type, platform, application, and country.

Based on function, the Asia Pacific air defense radar market is segmented into synthetic aperture radar and moving target indicator radar, surveillance radar, airborne early warning radar, multi-functional radar, weather radar, and others. The synthetic aperture radar and moving target indicator radar segment held a larger share of the Asia Pacific air defense radar market in 2022.

Based on range, the Asia Pacific air defense radar market is segmented into short range, medium range, and long range. The medium range segment held the largest share of the Asia Pacific air defense radar market in 2022.

Based on system type, the Asia Pacific air defense radar market is segmented into fixed radar, and portable radar. The fixed radar segment held the largest share of the Asia Pacific air defense radar market in 2022.

Based on platform, the Asia Pacific air defense radar market is segmented into ground-base, aircraft-mounted, and naval based. The ground-base segment held the largest share of the Asia Pacific air defense radar market in 2022.

Based on application, the Asia Pacific air defense radar market is segmented into ballistic missile defense, identification friend or foe, weather forecasting, and others. The identification friend or foe segment held the largest share of the Asia Pacific air defense radar market in 2022.

Based on country, the Asia Pacific air defense radar market is segmented into Australia, China, India, Japan, South Korea, and the Rest of Asia Pacific. China dominated the Asia Pacific air defense radar market in 2022.

BAE Systems Plc, General Dynamics Corp, Honeywell International Inc, Israel Aerospace Industries Ltd, Leonardo SpA, Lockheed Martin Corp, Northrop Grumman Corp, Raytheon Technologies Corp, Saab AB, and Thales SA are some of the leading companies operating in the Asia Pacific air defense radar market.

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