

Asia Pacific Airborne Fire Control Radar Market Size study, by Frequency Band (L And S-Band, X-Band, Ku/K/Ka-Band) by Platform (Fighter Jets, Combat Helicopters, and Others) by Application (Air to Ground, Air to Sea, Air to Air) and Country Forecasts 2022-2032

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Abstracts

Asia Pacific Airborne Fire Control Radar Market is valued approximately USD 620.00 million in 2023 and is anticipated to grow with a healthy growth rate of more than 8.67% over the forecast period 2024-2032. Airborne Fire Control Radar (AFCR) is a specialized radar system used primarily in military aircraft to detect, track, and engage targets. It provides real-time data on the position, velocity, and movement of targets, enabling precise targeting for weapons systems such as missiles and guns. AFCR systems are integral to modern combat aircraft, offering advanced capabilities such as target discrimination, clutter rejection, and multi-target tracking. They operate in various modes, including air-to-air, air-to-ground, and air-to-sea, enhancing the versatility and effectiveness of the aircraft in diverse combat scenarios. Advanced AFCR systems incorporate technologies like pulse-Doppler radar, synthetic aperture radar, and electronically scanned arrays to improve detection accuracy and range. These features make AFCR crucial for achieving air superiority, conducting precision strikes, and ensuring the survivability of aircraft in hostile environments. The integration of advanced technologies such as Active Electronically Scanned Array (AESA) radars is one of the major trends that help in growth of the Asia Pacific Airborne Fire Control Radar Market during the forecast period 2024-2032. Furthermore, AESA radars offer superior target tracking, higher resolution, and greater reliability compared to traditional radars.

Government initiatives and military procurement programs are one of the substantial

factors that help in driving demand for the Asia Pacific Airborne Fire Control Radar Market. Countries such as China, India, Japan, South Korea, and Australia are actively investing in defense modernization programs, including the procurement of next-generation aircraft equipped with innovative Fire Control Radar technology. For instance, in December 2021, Bharat Electronics Limited announced that under Make in India initiative, it has developed airborne fire control radar, which can be equipped with Tejas light combat aircraft. These initiatives are driven by a variety of factors, including rising regional tensions, territorial disputes, and the need to counter emerging threats such as ballistic missiles and stealth aircraft, which can further drive demand for the Asia Pacific Airborne Fire Control Radar Market. However, allocating sufficient funds for the procurement and maintenance of expensive airborne FCR systems stifle market growth during the forecast period 2024-2032.

The key Countries considered for the Asia Pacific Airborne Fire Control Radar market study includes China, India, Japan, South Korea, Australia and Rest of Asia Pacific. In 2023, China was the dominated regional market. China's military modernization efforts include the upgrade and acquisition of advanced aircraft and hovercraft equipped with innovative fire control radar technology. These initiatives aim to enhance the People's Liberation Army Air Force (PLAAF) and Navy's (PLAN) aerial combat capabilities, which further drive demand for the Asia Pacific Airborne Fire Control Radar Market. For instance, in July 2023, China announced that it is constructing a hovercraft equipped with fire control radars that can detect and track enemy ships and aircraft, enabling its militaries to organize their attacks and defend against counterattacks. The market in India is expected to develop at the fastest rate over the forecast period 2024-2032.

Major market player included in this report are:

Bharat Electronics Limited

Raytheon Southeast Asia Systems Co

Defence Research & Development Organisation (DRDO)

Company 4

Company 5

Company 6

Company 7

Company 8

Company 9

Company 10

The detailed segments and sub-segment of the market are explained below:

By Frequency Band

L And S-Band
X-Band
Ku/K/Ka-Band

By Platform

Fighter Jets
Combat Helicopters
Others

By Application

Air To Ground
Air To Sea
Air To Air

By Region:

Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC

Years considered for the study are as follows:

Historical year – 2022
Base year – 2023
Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.
Annualized revenues and country level analysis for each market segment.
Detailed analysis of geographical landscape with Country level analysis of major regions.
Competitive landscape with information on major players in the market.
Analysis of key business strategies and recommendations on future market approach.
Analysis of competitive structure of the market.
Demand side and supply side analysis of the market.

Contents

CHAPTER 1. ASIA PACIFIC AIRBORNE FIRE CONTROL RADAR MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 1.1. Research Objective
- 1.2. Market Definition
- 1.3. Research Assumptions
 - 1.3.1. Inclusion & Exclusion
 - 1.3.2. Limitations
 - 1.3.3. Supply Side Analysis
 - 1.3.3.1. Availability
 - 1.3.3.2. Infrastructure
 - 1.3.3.3. Regulatory Environment
 - 1.3.3.4. Market Competition
 - 1.3.3.5. Economic Viability (Consumer's Perspective)
 - 1.3.4. Demand Side Analysis
 - 1.3.4.1. Regulatory frameworks
 - 1.3.4.2. Technological Advancements
 - 1.3.4.3. Environmental Considerations
 - 1.3.4.4. Consumer Awareness & Acceptance
- 1.4. Estimation Methodology
- 1.5. Years Considered for the Study
- 1.6. Currency Conversion Rates

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Asia Pacific Airborne Fire Control Radar Market Size & Forecast (2022- 2032)
- 2.2. Regional Summary
- 2.3. Segmental Summary
 - 2.3.1. By Frequency Band
 - 2.3.2. By Platform
 - 2.3.3. By Application
- 2.4. Key Trends
- 2.5. Recession Impact
- 2.6. Analyst Recommendation & Conclusion

CHAPTER 3. ASIA PACIFIC AIRBORNE FIRE CONTROL RADAR MARKET DYNAMICS

- 3.1. Market Drivers
- 3.2. Market Challenges
- 3.3. Market Opportunities

CHAPTER 4. ASIA PACIFIC AIRBORNE FIRE CONTROL RADAR MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model
 - 4.1.1. Bargaining Power of Suppliers
 - 4.1.2. Bargaining Power of Buyers
 - 4.1.3. Threat of New Entrants
 - 4.1.4. Threat of Substitutes
 - 4.1.5. Competitive Rivalry
 - 4.1.6. Futuristic Approach to Porter's 5 Force Model
 - 4.1.7. Porter's 5 Force Impact Analysis
- 4.2. PESTEL Analysis
 - 4.2.1. Political
 - 4.2.2. Economical
 - 4.2.3. Social
 - 4.2.4. Technological
 - 4.2.5. Environmental
 - 4.2.6. Legal
- 4.3. Top investment opportunity
- 4.4. Top winning strategies
- 4.5. Disruptive Trends
- 4.6. Industry Expert Perspective
- 4.7. Analyst Recommendation & Conclusion

CHAPTER 5. ASIA PACIFIC AIRBORNE FIRE CONTROL RADAR MARKET SIZE & FORECASTS BY FREQUENCY BAND 2022-2032

- 5.1. L And S-Band
- 5.2. X-Band
- 5.3. Ku/K/Ka-Band

CHAPTER 6. ASIA PACIFIC AIRBORNE FIRE CONTROL RADAR MARKET SIZE & FORECASTS BY PLATFORM 2022-2032

- 6.1. Fighter Jets
- 6.2. Combat Helicopters
- 6.3. Others

CHAPTER 7. ASIA PACIFIC AIRBORNE FIRE CONTROL RADAR MARKET SIZE & FORECASTS BY APPLICATION 2022-2032

- 7.1. Air To Ground
- 7.2. Air To Sea
- 7.3. Air To Air

CHAPTER 8. ASIA PACIFIC AIRBORNE FIRE CONTROL RADAR MARKET SIZE & FORECASTS BY COUNTRY 2022-2032

- 8.1. China Airborne Fire Control Radar Market
 - 8.1.1. Frequency Band breakdown size & forecasts, 2022-2032
 - 8.1.2. Platform breakdown size & forecasts, 2022-2032
 - 8.1.3. Application breakdown size & forecasts, 2022-2032
- 8.2. India Airborne Fire Control Radar Market
- 8.3. Japan Airborne Fire Control Radar Market
- 8.4. Australia Airborne Fire Control Radar Market
- 8.5. South Korea Airborne Fire Control Radar Market
- 8.6. Rest of Asia Pacific Airborne Fire Control Radar Market

CHAPTER 9. COMPETITIVE INTELLIGENCE

- 9.1. Key Company SWOT Analysis
 - 9.1.1. Company
 - 9.1.2. Company
 - 9.1.3. Company
- 9.2. Top Market Strategies
- 9.3. Company Profiles
 - 9.3.1. Bharat Electronics Limited
 - 9.3.1.1. Key Information
 - 9.3.1.2. Overview
 - 9.3.1.3. Financial (Subject to Data Availability)
 - 9.3.1.4. Product Summary
 - 9.3.1.5. Market Strategies
 - 9.3.2. Raytheon Southeast Asia Systems Co

9.3.3. Defence Research & Development Organisation (DRDO)

9.3.4. Company

9.3.5. Company

9.3.6. Company

9.3.7. Company

9.3.8. Company

9.3.9. Company

9.3.10. Company

CHAPTER 10. RESEARCH PROCESS

10.1. Research Process

10.1.1. Data Mining

10.1.2. Analysis

10.1.3. Market Estimation

10.1.4. Validation

10.1.5. Publishing

10.2. Research Attributes

List Of Tables

LIST OF TABLES

TABLE 1. Asia Pacific Airborne Fire Control Radar market, report scope

TABLE 2. Asia Pacific Airborne Fire Control Radar market estimates & forecasts by Country 2022-2032 (USD Million)

TABLE 3. Asia Pacific Airborne Fire Control Radar market estimates & forecasts by Frequency Band 2022-2032 (USD Million)

TABLE 4. Asia Pacific Airborne Fire Control Radar market estimates & forecasts by Platform 2022-2032 (USD Million)

TABLE 5. Asia Pacific Airborne Fire Control Radar market estimates & forecasts by Application 2022-2032 (USD Million)

TABLE 6. Asia Pacific Airborne Fire Control Radar market by segment, estimates & forecasts, 2022-2032 (USD Million)

TABLE 7. Asia Pacific Airborne Fire Control Radar market by country, estimates & forecasts, 2022-2032 (USD Million)

TABLE 8. Asia Pacific Airborne Fire Control Radar market by segment, estimates & forecasts, 2022-2032 (USD Million)

TABLE 9. Asia Pacific Airborne Fire Control Radar market by country, estimates & forecasts, 2022-2032 (USD Million)

TABLE 10. Asia Pacific Airborne Fire Control Radar market by segment, estimates & forecasts, 2022-2032 (USD Million)

TABLE 11. Asia Pacific Airborne Fire Control Radar market by country, estimates & forecasts, 2022-2032 (USD Million)

TABLE 12. Asia Pacific Airborne Fire Control Radar market by segment, estimates & forecasts, 2022-2032 (USD Million)

TABLE 13. Asia Pacific Airborne Fire Control Radar market by country, estimates & forecasts, 2022-2032 (USD Million)

TABLE 14. Asia Pacific Airborne Fire Control Radar market by segment, estimates & forecasts, 2022-2032 (USD Million)

TABLE 15. Asia Pacific Airborne Fire Control Radar market by country, estimates & forecasts, 2022-2032 (USD Million)

TABLE 16. China Airborne Fire Control Radar market estimates & forecasts, 2022-2032 (USD Million)

TABLE 17. China Airborne Fire Control Radar market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 18. China Airborne Fire Control Radar market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 19. India Airborne Fire Control Radar market estimates & forecasts, 2022-2032 (USD Million)

TABLE 20. India Airborne Fire Control Radar market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 21. India Airborne Fire Control Radar market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 22. Japan Airborne Fire Control Radar market estimates & forecasts, 2022-2032 (USD Million)

TABLE 23. Japan Airborne Fire Control Radar market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 24. Japan Airborne Fire Control Radar market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 25. Australia Airborne Fire Control Radar market estimates & forecasts, 2022-2032 (USD Million)

TABLE 26. Australia Airborne Fire Control Radar market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 27. Australia Airborne Fire Control Radar market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 28. South Korea Airborne Fire Control Radar market estimates & forecasts, 2022-2032 (USD Million)

TABLE 29. South Korea Airborne Fire Control Radar market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 30. South Korea Airborne Fire Control Radar market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 31.

TABLE 32. RoAPAC Airborne Fire Control Radar market estimates & forecasts, 2022-2032 (USD Million)

TABLE 33. RoAPAC Airborne Fire Control Radar market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 34. RoAPAC Airborne Fire Control Radar market estimates & forecasts by segment 2022-2032 (USD Million)

TABLE 35. List of secondary sources, used in the study of Asia Pacific Airborne Fire Control Radar Market.

TABLE 36. List of primary sources, used in the study of Asia Pacific Airborne Fire Control Radar Market.

TABLE 37. Years considered for the study.

TABLE 38. Exchange rates considered.

List Of Figures

LIST OF FIGURES

- FIG 1. Asia Pacific Airborne Fire Control Radar market, research methodology
- FIG 2. Asia Pacific Airborne Fire Control Radar market, market estimation techniques
- FIG 3. Asia Pacific market size estimates & forecast methods.
- FIG 4. Asia Pacific Airborne Fire Control Radar market, key trends 2023
- FIG 5. Asia Pacific Airborne Fire Control Radar market, growth prospects 2022-2032
- FIG 6. Asia Pacific Airborne Fire Control Radar market, porters 5 force model
- FIG 7. Asia Pacific Airborne Fire Control Radar market, pestel analysis
- FIG 8. Asia Pacific Airborne Fire Control Radar market, value chain analysis
- FIG 9. Asia Pacific Airborne Fire Control Radar market by segment, 2022 & 2032 (USD Million)
- FIG 10. Asia Pacific Airborne Fire Control Radar market by segment, 2022 & 2032 (USD Million)
- FIG 11. Asia Pacific Airborne Fire Control Radar market by segment, 2022 & 2032 (USD Million)
- FIG 12. Asia Pacific Airborne Fire Control Radar market by segment, 2022 & 2032 (USD Million)
- FIG 13. Asia Pacific Airborne Fire Control Radar market by segment, 2022 & 2032 (USD Million)
- FIG 14. Asia Pacific Airborne Fire Control Radar market, Country snapshot 2022 & 2032
- FIG 15. Asia Pacific Airborne Fire Control Radar market 2022 & 2032 (USD Million)
- FIG 16. Asia Pacific Airborne Fire Control Radar market, company market share analysis (2023)

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