

Airborne Fire Control Radar Market Report by Frequency Band (S-band, X-band, Ku/K/Ka Band), Application (Air to Ground, Air to Sea, Air to Air), End User (Military, Commercial), and Region 2024-2032

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Abstracts

The global airborne fire control radar market size reached US\$ 3.1 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 4.4 Billion by 2032, exhibiting a growth rate (CAGR) of 3.9% during 2024-2032.

Airborne fire control radars (AFCRs) refer to long-range detection systems that are used for intercepting, tracking and attacking hostile air-to-air and air-to-ground agile targets. They are lightweight and compact and are integrated with the missiles, guns and rockets in fast strike aircraft and helicopters. AFCRs consist of antennas and low-pulse repetition frequency (LPRF) systems to induce the doppler frequency for the detection of changes in the range of moving targets. The radars identify the location of the target and process the data to determine the trajectory and continuous position. AFCRs also aid in navigating around fixed or moving targets and generate warnings to prevent collisions of large aircraft. As a result, these radars are widely used for detection, search, surveillance, weapon guidance and navigation operations.

Airborne Fire Control Radar Market Trends:

The rapid modernization of target detection equipment is one of the key factors driving the growth of the market. Moreover, the widespread adoption of active electronically scanning arrays (AESA) in aircraft is providing a thrust to the market growth. With the rising incidence of cross-border disturbances and terrorist attacks, military and defense organizations are extensively utilizing AFCRs for accurate target detection and conducting critical missions. The radars offer in-flight synthetic aperture radar (SAR) images of targets for real-time detection of movement or elevation in the field. In line

with this, the increasing procurement of fighter jets by the government of developing economies to enhance the aerial strength of defense forces is also contributing to the growth of the market. Additionally, the increasing demand for advanced electro-optical systems in helicopters for improved combat capacities is acting as another growth factor. These systems are also integrated with advanced geolocation sensors, long-range battle damage assessment and surveillance and reconnaissance systems. Other factors, including the increasing automation in security and surveillance radar systems technology, along with significant improvements in the defense infrastructure, are anticipated to drive the market toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global airborne fire control radar market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on frequency band, application and end user.

Breakup by Frequency Band:

- S-band
- X-band
- Ku/K/Ka Band

Breakup by Application:

- Air to Ground
- Air to Sea
- Air to Air

Breakup by End User:

- Military
- Commercial

Breakup by Region:

- North America
 - United States
 - Canada
- Asia-Pacific

China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Airbus SE, Aselsan A.S. (Turkish Armed Forces Foundation), BAE Systems plc, General Dynamics Corporation, Israel Aerospace Industries, Leonardo S.p.A., Lockheed Martin Corporation, Northrop Grumman Corporation, Raytheon Technologies Corporation, Saab AB and Thales Group.

Key Questions Answered in This Report

1. What was the size of the global airborne fire control radar market in 2023?
2. What is the expected growth rate of the global airborne fire control radar market during 2024-2032?
3. What are the key factors driving the global airborne fire control radar market?
4. What has been the impact of COVID-19 on the global airborne fire control radar market?
5. What is the breakup of the global airborne fire control radar market based on the frequency band?
6. What is the breakup of the global airborne fire control radar market based on the

application?

7. What are the key regions in the global airborne fire control radar market?

8. Who are the key players/companies in the global airborne fire control radar market?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL AIRBORNE FIRE CONTROL RADAR MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY FREQUENCY BAND

- 6.1 S-band
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 X-band
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Ku/K/Ka Band

6.3.1 Market Trends

6.3.2 Market Forecast

7 MARKET BREAKUP BY APPLICATION

7.1 Air to Ground

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 Air to Sea

7.2.1 Market Trends

7.2.2 Market Forecast

7.3 Air to Air

7.3.1 Market Trends

7.3.2 Market Forecast

8 MARKET BREAKUP BY END USER

8.1 Military

8.1.1 Market Trends

8.1.2 Market Forecast

8.2 Commercial

8.2.1 Market Trends

8.2.2 Market Forecast

9 MARKET BREAKUP BY REGION

9.1 North America

9.1.1 United States

9.1.1.1 Market Trends

9.1.1.2 Market Forecast

9.1.2 Canada

9.1.2.1 Market Trends

9.1.2.2 Market Forecast

9.2 Asia-Pacific

9.2.1 China

9.2.1.1 Market Trends

9.2.1.2 Market Forecast

9.2.2 Japan

9.2.2.1 Market Trends

- 9.2.2.2 Market Forecast
- 9.2.3 India
 - 9.2.3.1 Market Trends
 - 9.2.3.2 Market Forecast
- 9.2.4 South Korea
 - 9.2.4.1 Market Trends
 - 9.2.4.2 Market Forecast
- 9.2.5 Australia
 - 9.2.5.1 Market Trends
 - 9.2.5.2 Market Forecast
- 9.2.6 Indonesia
 - 9.2.6.1 Market Trends
 - 9.2.6.2 Market Forecast
- 9.2.7 Others
 - 9.2.7.1 Market Trends
 - 9.2.7.2 Market Forecast
- 9.3 Europe
 - 9.3.1 Germany
 - 9.3.1.1 Market Trends
 - 9.3.1.2 Market Forecast
 - 9.3.2 France
 - 9.3.2.1 Market Trends
 - 9.3.2.2 Market Forecast
 - 9.3.3 United Kingdom
 - 9.3.3.1 Market Trends
 - 9.3.3.2 Market Forecast
 - 9.3.4 Italy
 - 9.3.4.1 Market Trends
 - 9.3.4.2 Market Forecast
 - 9.3.5 Spain
 - 9.3.5.1 Market Trends
 - 9.3.5.2 Market Forecast
 - 9.3.6 Russia
 - 9.3.6.1 Market Trends
 - 9.3.6.2 Market Forecast
 - 9.3.7 Others
 - 9.3.7.1 Market Trends
 - 9.3.7.2 Market Forecast
- 9.4 Latin America

9.4.1 Brazil

9.4.1.1 Market Trends

9.4.1.2 Market Forecast

9.4.2 Mexico

9.4.2.1 Market Trends

9.4.2.2 Market Forecast

9.4.3 Others

9.4.3.1 Market Trends

9.4.3.2 Market Forecast

9.5 Middle East and Africa

9.5.1 Market Trends

9.5.2 Market Breakup by Country

9.5.3 Market Forecast

10 SWOT ANALYSIS

10.1 Overview

10.2 Strengths

10.3 Weaknesses

10.4 Opportunities

10.5 Threats

11 VALUE CHAIN ANALYSIS

12 PORTERS FIVE FORCES ANALYSIS

12.1 Overview

12.2 Bargaining Power of Buyers

12.3 Bargaining Power of Suppliers

12.4 Degree of Competition

12.5 Threat of New Entrants

12.6 Threat of Substitutes

13 PRICE ANALYSIS

14 COMPETITIVE LANDSCAPE

14.1 Market Structure

14.2 Key Players

14.3 Profiles of Key Players

14.3.1 Airbus SE

14.3.1.1 Company Overview

14.3.1.2 Product Portfolio

14.3.1.3 Financials

14.3.1.4 SWOT Analysis

14.3.2 Aselsan A.S. (Turkish Armed Forces Foundation)

14.3.2.1 Company Overview

14.3.2.2 Product Portfolio

14.3.2.3 Financials

14.3.3 BAE Systems plc

14.3.3.1 Company Overview

14.3.3.2 Product Portfolio

14.3.3.3 Financials

14.3.3.4 SWOT Analysis

14.3.4 General Dynamics Corporation

14.3.4.1 Company Overview

14.3.4.2 Product Portfolio

14.3.4.3 Financials

14.3.4.4 SWOT Analysis

14.3.5 Israel Aerospace Industries

14.3.5.1 Company Overview

14.3.5.2 Product Portfolio

14.3.6 Leonardo S.p.A.

14.3.6.1 Company Overview

14.3.6.2 Product Portfolio

14.3.6.3 Financials

14.3.6.4 SWOT Analysis

14.3.7 Lockheed Martin Corporation

14.3.7.1 Company Overview

14.3.7.2 Product Portfolio

14.3.7.3 Financials

14.3.7.4 SWOT Analysis

14.3.8 Northrop Grumman Corporation

14.3.8.1 Company Overview

14.3.8.2 Product Portfolio

14.3.8.3 Financials

14.3.8.4 SWOT Analysis

14.3.9 Raytheon Technologies Corporation

- 14.3.9.1 Company Overview
- 14.3.9.2 Product Portfolio
- 14.3.9.3 Financials
- 14.3.9.4 SWOT Analysis
- 14.3.10 Saab AB
 - 14.3.10.1 Company Overview
 - 14.3.10.2 Product Portfolio
 - 14.3.10.3 Financials
 - 14.3.10.4 SWOT Analysis
- 14.3.11 Thales Group
 - 14.3.11.1 Company Overview
 - 14.3.11.2 Product Portfolio
 - 14.3.11.3 Financials
 - 14.3.11.4 SWOT Analysis

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