

Airborne Radars Market by Component, Platform, Application (Defense and Security, Commercial and Civil), Waveform, Technology, Waveform, Range, Dimension(2D, 3D, 4D), Installation Type and Region - Global Forecast to 2028

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Abstracts

The Airborne Radars market is projected to grow from USD 15.8 million in 2023 to USD 23.6 million by 2028, at a CAGR of 8.3% from 2023 to 2028. Various factors, such as the increasing demand for airborne weather monitoring, technological advancements in airborne radars system will drive the airborne radars market. However, high development and maintenance cost and implications of extreme weather conditions involving airborne radars are limiting the overall growth of the market.

“Digital signal processors: The largest share in component segment in the airborne radars market in 2023.”

The digital signal processor segment is projected to have the largest share in 2023. A digital signal processor acts as a computer that performs all command & control operations through signal processing. While traditional systems use analog signal processing techniques, new digital signal processing uses high-end processors such as field programmable gate array (FPGA), graphics processing unit (GPU), and general-purpose processors. This would drive the digital signal processors segment during the forecast period.

“Defense and Security: The largest share in application segment in the airborne radars market in 2023.”

The Defense and Security from the application segment is projected to have the largest

share in 2023. Airborne radars are used by police forces, border security forces, coastal & maritime patrol officers, and search & rescue operatives. Use in air traffic control and bomb scoring and increasing need for actionable intelligence to ensure safety against unauthorized targets are the drivers which are expected to leverage the defense and security segment .

“KA-band: The second largest share in frequency band segment in the airborne radars market in 2023.”

The KA-band segment is projected to have the second-largest share in 2023. KA-band radars are available with a frequency range from 24-40 GHz and a wavelength between 0.75 cm and 1.11 cm. They can deliver spot beams with 10 times the capacity of KU-band frequency. These bands are primarily used for mapping; they have a short-range but high-resolution imaging capability. KA-bands are widely used in airport surface detection equipment (ASDE). High focused and powerful signals will drive the KA-band segment

“The North America region is estimated to have the largest share in the airborne radars market in 2023.”

North America is estimated to account for the largest share in airborne radars aircraft market in 2023. The North America region for this study comprises US and Canada. The airborne radars market in North America has experienced a remarkable surge in recent years. The growth of the region is due to actively embracing developments and significant investments in research and development of airborne radars which is expected to revolutionize the radars market .

The break-up of the profiles of primary participants in the airborne radars market is as follows:

By Company Type: Tier 1 - 35%; Tier 2 - 45%; and Tier 3 - 20%

By Designation: C-Level Executives - 35%; Directors - 25%; and Others - 40%

By Region: North America – 25%, Europe – 15%, Asia Pacific – 45%, Latin America -10% Rest of the World – 5%.

Major Players in the airborne radars market are Raytheon Technologies Corporation

(US), Lockheed Martin Corporation (US), Thales Group (France), Northrop Grumman Corporation (US), Leonardo S.p.A. (Italy) among others.

Research Coverage

The market study covers the airborne radars market across various segments and subsegments. It aims at estimating the size and growth potential of this market across different segments based on Component (Antennas, Transmitters, Receivers, Power Amplifiers, Duplexers, Digital Signal Processor, Graphical User Interface, Stabilization Systems), Platform (Commercial Aircraft, Military Aircraft, Business Jets, Helicopters, Unmanned Aerial Vehicles (UAVs), Aerostats, Urban Air Mobility (UAM)), Application (Commercial & Civil, Defense & Security), Waveform (Frequency modulated continuous wave (FMCW), Doppler, Ultra-wideband impulse), Technology (Software-defined Radar, Quantum radar, Conventional radar), Frequency Band (C Band, L Band, X Band, KA Band, S Band, KU Band, HF/UHF/VHF Band, MULTI Band), Range (Long-range (200 KM TO 500 KM), Very Long-range (above 500 KM), Medium-range (50 KM TO 200 KM), Short-range (10 KM TO 50 KM), Very Short-range (

Key benefits of buying this report:

This report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall airborne radars market and its subsegments. The report covers the entire ecosystem of the airborne radars industry and will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies. The report will also help stakeholders understand the pulse of the market and provide them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Market Penetration: Comprehensive information on airborne radars market offered by the top players in the market.

Market Drivers: Increasing demand for advanced weather monitoring radars along with technological advancements and growing preference for phased array radars are driving factors for the airborne radars market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the

airborne radars market

Market Development: Comprehensive information about lucrative markets – the report analyses the airborne radars market across varied regions.

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the airborne radars market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players in the airborne radars market

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.3 STUDY SCOPE

1.3.1 MARKETS COVERED

FIGURE 1 AIRBORNE RADARS MARKET SEGMENTATION

1.3.2 REGIONS COVERED

1.4 YEARS CONSIDERED

1.5 INCLUSIONS AND EXCLUSIONS

TABLE 1 INCLUSIONS AND EXCLUSIONS

1.6 CURRENCY CONSIDERED

TABLE 2 USD EXCHANGE RATES

1.7 LIMITATIONS

1.8 STAKEHOLDERS

1.9 SUMMARY OF CHANGES

1.10 RECESSION IMPACT

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 REPORT PROCESS FLOW

FIGURE 3 AIRBORNE RADARS MARKET: RESEARCH DESIGN

2.1.1 SECONDARY DATA

2.1.1.1 Key data from secondary sources

2.1.2 PRIMARY DATA

2.1.2.1 Key data from primary sources

2.1.2.2 Breakdown of primary interviews

FIGURE 4 BREAKDOWN OF PRIMARY INTERVIEWS: BY COMPANY TYPE, DESIGNATION, AND REGION

2.2 FACTOR ANALYSIS

2.2.1 INTRODUCTION

2.2.2 DEMAND-SIDE INDICATORS

2.2.2.1 Increase in conflicts and disputes globally

2.2.2.2 Rise in defense budgets of emerging economies

2.3 MARKET SIZE ESTIMATION AND METHODOLOGY

2.3.1 BOTTOM-UP APPROACH

FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

2.3.2 TOP-DOWN APPROACH

FIGURE 6 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

2.4 DATA TRIANGULATION

FIGURE 7 AIRBORNE RADARS MARKET: DATA TRIANGULATION

2.5 MARKET SIZING AND FORECASTING

2.6 RESEARCH ASSUMPTIONS

2.7 RESEARCH LIMITATIONS

2.8 RISK ASSESSMENT

3 EXECUTIVE SUMMARY

FIGURE 8 DIGITAL SIGNAL PROCESSORS SEGMENT TO LEAD MARKET FROM 2023 TO 2028

FIGURE 9 DEFENSE AND SECURITY SEGMENT TO DOMINATE AIRBORNE RADARS MARKET DURING FORECAST PERIOD

FIGURE 10 3D SEGMENT TO GROW AT FASTEST RATE DURING FORECAST PERIOD

FIGURE 11 KU-BAND TO DOMINATE MARKET DURING FORECAST PERIOD

FIGURE 12 ASIA PACIFIC TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN AIRBORNE RADARS MARKET

FIGURE 13 DEMAND FOR PHASED ARRAY RADARS FOR ENHANCED OPERATIONAL EFFICIENCY TO DRIVE MARKET

4.2 AIRBORNE RADARS MARKET, BY INSTALLATION

FIGURE 14 NEW INSTALLATION TO HOLD LARGEST SHARE DURING FORECAST PERIOD

4.3 AIRBORNE RADARS MARKET, BY RANGE

FIGURE 15 VERY LONG-RANGE SEGMENT TO HAVE HIGHEST CAGR DURING FORECAST PERIOD

4.4 AIRBORNE RADARS MARKET, BY WAVEFORM

FIGURE 16 FREQUENCY MODULATED CONTINUOUS WAVE (FMCW) SEGMENT TO LEAD MARKET DURING FORECAST PERIOD

4.5 AIRBORNE RADARS MARKET, BY REGION

FIGURE 17 SOUTH KOREAN MARKET TO GROW AT HIGHEST CAGR DURING

FORECAST PERIOD

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 18 AIRBORNE RADARS MARKET DYNAMICS

5.2.1 DRIVERS

5.2.1.1 Increased demand for advanced airborne weather monitoring radars

5.2.1.2 Technological advancements in airborne radar systems

5.2.1.3 Government investments to upgrade existing fighter aircraft radars

5.2.1.4 Adoption of airborne radars in geological surveying and research

5.2.1.5 Growing preference for phased array radars

5.2.2 RESTRAINTS

5.2.2.1 High development and maintenance costs

5.2.3 OPPORTUNITIES

5.2.3.1 Research & development in advanced airborne surveillance technologies

5.2.3.2 Rapid development of lightweight radars for unmanned aerial vehicles

5.2.4 CHALLENGES

5.2.4.1 Implications of extreme weather conditions

5.2.4.2 Vulnerability of airborne radars to new jamming techniques

5.2.4.3 Stringent policies on cross-border trading

5.3 RECESSION IMPACT ANALYSIS: OPTIMISTIC, PESSIMISTIC, AND NEUTRAL SCENARIOS

5.4 VALUE CHAIN ANALYSIS

FIGURE 19 VALUE CHAIN ANALYSIS

5.4.1 RAW MATERIALS

5.4.2 R&D

5.4.3 COMPONENT MANUFACTURING

5.4.4 OEMS

5.4.5 END USERS

5.5 ECOSYSTEM MAPPING

5.5.1 PROMINENT COMPANIES

5.5.2 PRIVATE AND SMALL ENTERPRISES

5.5.3 END USERS

FIGURE 20 ECOSYSTEM MAPPING

TABLE 3 ROLE OF KEY PLAYERS IN ECOSYSTEM

5.6 TRENDS AND DISRUPTIONS IMPACTING CUSTOMER BUSINESS

FIGURE 21 TRENDS AND DISRUPTIONS IMPACTING CUSTOMER BUSINESS

5.7 PORTER'S FIVE FORCES ANALYSIS

FIGURE 22 PORTER'S FIVE FORCES ANALYSIS

TABLE 4 IMPACT OF PORTER'S FIVE FORCES

5.7.1 THREAT OF NEW ENTRANTS

5.7.2 THREAT OF SUBSTITUTES

5.7.3 BARGAINING POWER OF SUPPLIERS

5.7.4 BARGAINING POWER OF BUYERS

5.7.5 INTENSITY OF COMPETITIVE RIVALRY

5.8 PRICING ANALYSIS

TABLE 5 AVERAGE SELLING PRICE OF RADAR SYSTEMS PER AIRCRAFT, BY SEGMENT, 2022 (USD)

TABLE 6 AVERAGE SELLING PRICE OF RADAR SYSTEMS PER AIRCRAFT, BY REGION, 2022 (USD)

5.9 VOLUME DATA

TABLE 7 VOLUME DATA OF RADARS FOR NEW AIRCRAFT INSTALLATIONS, BY TYPE (UNITS)

5.10 TRADE DATA

TABLE 8 COUNTRY-WISE IMPORTS, 2020–2022 (USD THOUSAND)

TABLE 9 COUNTRY-WISE EXPORTS, 2020–2022 (USD THOUSAND)

5.11 REGULATORY LANDSCAPE

TABLE 10 NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER AGENCIES

TABLE 11 EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER AGENCIES

TABLE 12 ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER AGENCIES

5.12 KEY CONFERENCES AND EVENTS, 2023–2024

TABLE 13 KEY CONFERENCES AND EVENTS, 2023–2024

5.13 USE CASE ANALYSIS

5.13.1 ACTIVE ELECTRONICALLY SCANNED ARRAY

5.13.2 INTEGRATION OF SURVEILLANCE RADAR IN UAVS

5.14 KEY STAKEHOLDERS AND BUYING CRITERIA

5.14.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 23 INFLUENCE OF STAKEHOLDERS ON BUYING AIRBORNE RADARS, BY APPLICATION

TABLE 14 INFLUENCE OF STAKEHOLDERS ON BUYING AIRBORNE RADARS, BY APPLICATION (%)

5.14.2 BUYING CRITERIA

FIGURE 24 KEY BUYING CRITERIA FOR AIRBORNE RADARS, BY APPLICATION

TABLE 15 KEY BUYING CRITERIA FOR AIRBORNE RADARS, BY APPLICATION**6 INDUSTRY TRENDS**

6.1 INTRODUCTION

6.2 TECHNOLOGY TRENDS

6.2.1 SOFTWARE-DEFINED RADAR

6.2.2 MULTIPLE-INPUTS/MULTIPLE-OUTPUTS (MIMO)

6.2.3 3D AND 4D RADAR

6.2.4 INVERSE SYNTHETIC APERTURE RADAR (ISAR)

6.2.5 QUANTUM RADAR

6.2.6 LIDAR TECHNOLOGY

6.3 TECHNOLOGY ANALYSIS

6.4 IMPACT OF MEGATRENDS

6.5 SUPPLY CHAIN ANALYSIS

FIGURE 25 SUPPLY CHAIN ANALYSIS

6.6 INNOVATIONS AND PATENT REGISTRATIONS

FIGURE 26 TOP 10 PATENT APPLICANTS

TABLE 16 INNOVATIONS AND PATENT REGISTRATIONS, 2020–2023

6.7 ROADMAP FOR AIRBORNE RADARS MARKET COMMERCIALIZATION

FIGURE 27 DEVELOPMENT POTENTIAL OF AIRBORNE RADARS MARKET FROM 2000 TO 2030

7 AIRBORNE RADARS MARKET, BY COMPONENT

7.1 INTRODUCTION

FIGURE 28 DIGITAL SIGNAL PROCESSORS SEGMENT TO LEAD MARKET DURING FORECAST PERIOD

TABLE 17 AIRBORNE RADARS MARKET, BY COMPONENT, 2019–2022 (USD MILLION)

TABLE 18 AIRBORNE RADARS MARKET, BY COMPONENT, 2023–2028 (USD MILLION)

7.2 ANTENNAS

TABLE 19 ANTENNAS: AIRBORNE RADARS MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 20 ANTENNAS: AIRBORNE RADARS MARKET, BY TYPE, 2023–2028 (USD MILLION)

7.2.1 PARABOLIC REFLECTOR ANTENNAS

7.2.1.1 High signal gain and directivity at narrow bandwidths to drive market

7.2.2 SLOTTED WAVEGUIDE ANTENNAS

7.2.2.1 Increasing demand for lightweight and portable airborne surveillance radars to drive market

7.2.3 PLANAR PHASED ARRAY ANTENNAS

7.2.3.1 Growing adoption of tactical defense radar systems to drive market

7.2.4 ACTIVE SCANNED ARRAY ANTENNAS

7.2.4.1 Increasing demand for reliable and efficient airborne surveillance radars to drive market

7.2.5 PASSIVE SCANNED ARRAY ANTENNAS

7.2.5.1 Ability to track multiple targets to drive market

7.3 TRANSMITTERS

TABLE 21 TRANSMITTERS: AIRBORNE RADARS MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 22 TRANSMITTERS: AIRBORNE RADARS MARKET, BY TYPE, 2023–2028 (USD MILLION)

7.3.1 MICROWAVE TUBE-BASED TRANSMITTERS

7.3.1.1 Ability to transmit high-power microwaves to drive market

7.3.2 SOLID-STATE ELECTRONICS

7.3.2.1 Preference for reliable signal transmission in critical weather conditions to drive market

7.4 DUPLEXERS

7.4.1 GROWING DEMAND FOR COMPACT RADAR SYSTEMS TO DRIVE MARKET

7.5 RECEIVERS

TABLE 23 RECEIVERS: AIRBORNE RADARS MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 24 RECEIVERS: AIRBORNE RADARS MARKET, BY TYPE, 2023–2028 (USD MILLION)

7.5.1 ANALOG RECEIVERS

7.5.1.1 Cost-effectiveness with low latency to drive market

7.5.2 DIGITAL RECEIVERS

7.5.2.1 Higher reliability than analog receivers to drive market

7.6 POWER AMPLIFIERS

TABLE 25 POWER AMPLIFIERS: AIRBORNE RADARS MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 26 POWER AMPLIFIERS: AIRBORNE RADARS MARKET, BY TYPE, 2023–2028 (USD MILLION)

7.6.1 TRAVELING WAVE TUBE AMPLIFIERS

7.6.1.1 Demand for large bandwidth radars to drive market

7.6.2 SOLID-STATE POWER AMPLIFIERS

7.6.2.1 Narrow bandwidth and low voltage to drive market

TABLE 27 SOLID-STATE POWER AMPLIFIERS: AIRBORNE RADARS MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 28 SOLID-STATE POWER AMPLIFIERS: AIRBORNE RADARS MARKET, BY TYPE, 2023–2028 (USD MILLION)

7.6.2.2 Gallium arsenide

7.6.2.2.1 Growing demand for low-power-consuming electronic devices to drive market

7.6.2.3 Gallium nitride (GAN)

7.6.2.3.1 Need for high power density in radar systems to drive market

7.7 DIGITAL SIGNAL PROCESSORS

7.7.1 INCREASING USE OF FIELD PROGRAMMABLE GATED ARRAY AND GRAPHICS PROCESSING UNIT TO DRIVE MARKET

7.8 GRAPHICAL USER INTERFACES

7.8.1 CONTROL PANELS

7.8.1.1 Demand for multiple control features to drive market

7.8.2 GRAPHIC PANELS

7.8.2.1 Need for simplistic view of various functions and structures to drive market

7.8.3 DISPLAYS

7.8.3.1 Assistance in target locking and firing missiles to drive market

7.9 STABILIZATION SYSTEMS

7.9.1 GROWING DEMAND FOR 360-DEGREE FULL ROTATIONAL RADAR SYSTEMS TO DRIVE MARKET

7.10 OTHER COMPONENTS

8 AIRBORNE RADARS MARKET, BY PLATFORM

8.1 INTRODUCTION

FIGURE 29 UAM SEGMENT TO DOMINATE MARKET DURING FORECAST PERIOD

TABLE 29 AIRBORNE RADARS MARKET, BY PLATFORM, 2019–2022 (USD MILLION)

TABLE 30 AIRBORNE RADARS MARKET, BY PLATFORM, 2023–2028 (USD MILLION)

8.2 MILITARY AIRCRAFT

8.2.1 FIGHTER AIRCRAFT

8.2.1.1 Wide adoption of airborne surveillance radars for defense and national security to drive market

8.2.2 TRANSPORT AIRCRAFT

8.2.2.1 High demand for airborne radars for navigation to drive market

8.2.3 TRAINER AIRCRAFT

8.2.3.1 Increase in demand for advanced aircraft to train pilots and aircrew to drive market

8.2.4 RECONNAISSANCE AIRCRAFT

8.2.4.1 Adoption of modern intelligence, surveillance, and reconnaissance technologies to drive market

8.2.5 SPECIAL MISSION AIRCRAFT

8.2.5.1 Increasing need to detect cross-border infiltration to drive market

8.3 COMMERCIAL AIRCRAFT

8.3.1 NARROW-BODY AIRCRAFT

8.3.1.1 Cost-effective operations to drive market

8.3.2 NEW MID-SIZE AIRCRAFT

8.3.2.1 Demand for large-capacity commercial aircraft to drive market

8.3.3 WIDE-BODY AIRCRAFT

8.3.3.1 Rising demand for intercontinental air travel to drive market

8.3.4 BUSINESS JETS

8.3.4.1 Increasing demand for surveillance and reconnaissance applications by military and government agencies to drive market

8.4 HELICOPTERS

8.4.1 COMMERCIAL HELICOPTERS

8.4.1.1 Utilization in tourism and emergency rescue services to drive market

8.4.2 MILITARY HELICOPTERS

8.4.2.1 Ability to carry out one-time tasks efficiently to drive market

8.5 UNMANNED AIR VEHICLES (UAVS)

8.5.1 COMMERCIAL UAVS

8.5.1.1 Ability to locate targets in rough terrain and critical weather conditions to drive market

8.5.2 MILITARY UAVS

8.5.2.1 Government investment in modern surveillance technologies to drive market

8.5.2.1.1 Small UAVs

8.5.2.2 Tactical UAVs

8.5.2.3 Strategic UAVs

8.5.2.4 Medium-altitude long endurance (MALE) UAVs

8.5.2.5 High-altitude long endurance (HALE) UAVs

8.5.2.6 Special-purpose UAVs

8.5.3 AEROSTATS

8.5.3.1 Need for surveillance to monitor border disputes and drug trafficking to drive market

8.5.4 URBAN AIR MOBILITY (UAM)

8.5.4.1 Need to transport cargo and passengers at lower altitudes to drive market

9 AIRBORNE RADARS MARKET, BY APPLICATION

9.1 INTRODUCTION

FIGURE 30 DEFENSE AND SECURITY SEGMENT TO DOMINATE DURING FORECAST PERIOD

TABLE 31 AIRBORNE RADARS MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 32 AIRBORNE RADARS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

9.2 COMMERCIAL AND CIVIL

9.2.1 SCIENTIFIC RESEARCH

9.2.1.1 Low-cost remote target field remote sensing to drive market

9.2.2 AIRPORT PERIMETER SECURITY

9.2.2.1 Increased emphasis on airport security to drive market

9.2.3 CRITICAL INFRASTRUCTURE

9.2.3.1 Need for intruder detection systems at ports and harbors to drive market

9.2.4 WEATHER MONITORING

9.2.4.1 Demand for precise weather monitoring to drive market

9.2.5 NAVIGATION

9.2.5.1 Need for precise navigation for commercial aircraft and helicopters to drive market

9.2.6 COLLISION AVOIDANCE

9.2.6.1 Wide-scale use of radars to avoid incoming objects to drive market

9.2.7 OTHER APPLICATIONS

TABLE 33 COMMERCIAL AND CIVIL: AIRBORNE RADARS MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 34 COMMERCIAL AND CIVIL: AIRBORNE RADARS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

9.3 DEFENSE AND SECURITY

9.3.1 PERIMETER SECURITY

9.3.1.1 Use in air traffic control and bomb scoring to drive market

9.3.2 ISR

9.3.2.1 Need for actionable intelligence to ensure safety against unauthorized targets to drive market

9.3.3 AIR DEFENSE

9.3.3.1 Increased use of intercontinental ballistic missiles to drive market

9.3.4 BATTLEFIELD SURVEILLANCE

9.3.4.1 Use of surveillance drones to gather battlefield to drive market

9.3.5 SEARCH AND RESCUE

9.3.5.1 Integration of radar with EO/IR systems to drive market

9.3.6 WEATHER MONITORING

9.3.6.1 Demand for accurate and precise weather forecasting to drive market

9.3.7 NAVIGATION

9.3.7.1 Long-distance and intercontinental missions to drive market

TABLE 35 DEFENSE AND SECURITY: AIRBORNE RADARS MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 36 DEFENSE AND SECURITY: AIRBORNE RADARS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

10 AIRBORNE RADARS MARKET, BY WAVEFORM

10.1 INTRODUCTION

FIGURE 31 FREQUENCY MODULATED CONTINUOUS WAVE (FMCW) SEGMENT TO GROW FASTEST DURING FORECAST PERIOD

TABLE 37 AIRBORNE RADARS MARKET, BY WAVEFORM, 2019–2022 (USD MILLION)

TABLE 38 AIRBORNE RADARS MARKET, BY WAVEFORM, 2023–2028 (USD MILLION)

10.2 FREQUENCY MODULATED CONTINUOUS WAVE (FMCW)

10.2.1 INCREASED DEPENDENCY ON LOW-POWER TRANSMISSION DEVICES TO DRIVE MARKET

10.3 DOPPLER

TABLE 39 DOPPLER: AIRBORNE RADARS MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 40 DOPPLER: AIRBORNE RADARS MARKET, BY TYPE, 2023–2028 (USD MILLION)

10.3.1 CONVENTIONAL DOPPLER

10.3.1.1 Wide adoption for monitoring weather conditions to drive market

10.3.2 PULSE-DOPPLER

10.3.2.1 Meteorological applications to drive market

10.4 ULTRA-WIDEBAND IMPULSE

10.4.1 APPLICATIONS IN RADAR IMAGING AND DETECTION OF HUMAN VITAL SIGNALS TO DRIVE MARKET

11 AIRBORNE RADARS MARKET, BY TECHNOLOGY

11.1 INTRODUCTION

FIGURE 32 SOFTWARE-DEFINED RADARS TO LEAD MARKET FROM 2023 TO 2028

TABLE 41 AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2019–2022 (USD MILLION)

TABLE 42 AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2023–2028 (USD MILLION)

11.2 SOFTWARE-DEFINED RADARS

11.2.1 PHASED ARRAY RADARS

11.2.1.1 Active electronically scanned array (AESA)

11.2.1.2 Passive electronically scanned array (PESA)

11.2.2 MIMO

11.3 QUANTUM RADARS

11.3.1 R&D IN PRODUCTION STAGES TO DRIVE MARKET

11.4 CONVENTIONAL RADARS

11.4.1 USE IN COVERT MILITARY OPERATIONS TO DRIVE MARKET

12 AIRBORNE RADARS MARKET, BY FREQUENCY BAND

12.1 INTRODUCTION

FIGURE 33 KA-BAND SEGMENT TO PROGRESS AT HIGHEST CAGR DURING FORECAST PERIOD

TABLE 43 AIRBORNE RADARS MARKET, BY FREQUENCY BAND, 2019–2022 (USD MILLION)

TABLE 44 AIRBORNE RADARS MARKET, BY FREQUENCY BAND, 2023–2028 (USD MILLION)

12.2 C-BAND

12.2.1 APPLICATION IN LONG-RANGE MILITARY SURVEILLANCE TO DRIVE MARKET

12.3 L-BAND

12.3.1 USE IN ASSET TRACKING TO DRIVE MARKET

12.4 X-BAND

12.4.1 SITUATIONAL AWARENESS IN MILITARY APPLICATIONS TO DRIVE MARKET

12.5 KA-BAND

12.5.1 HIGH FOCUSED AND POWERFUL SIGNALS TO DRIVE MARKET

12.6 S-BAND

12.6.1 WIDE-SCALE USE IN AIRBORNE MARITIME SURVEILLANCE TO DRIVE MARKET

12.7 KU-BAND

12.7.1 WIDE BEAM COVERAGE AND HIGHER THROUGHPUT TO DRIVE MARKET

12.8 HF/UHF/VHF BANDS

12.8.1 HIGH ADOPTION IN EARLY WARNING SYSTEMS TO DRIVE MARKET

12.9 MULTI-BAND

12.9.1 COHERENT DETECTION AND TRACKING OF MOVING TARGETS TO DRIVE MARKET

13 AIRBORNE RADARS MARKET, BY RANGE

13.1 INTRODUCTION

FIGURE 34 VERY LONG-RANGE SEGMENT TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

TABLE 45 AIRBORNE RADARS MARKET, BY RANGE, 2019–2022 (USD MILLION)

TABLE 46 AIRBORNE RADARS MARKET, BY RANGE, 2023–2028 (USD MILLION)

13.2 LONG-RANGE (200 KM TO 500 KM)

13.2.1 USE FOR LONG-DISTANCE TRACKING OF BALLISTIC MISSILES TO DRIVE MARKET

13.3 VERY LONG-RANGE (ABOVE 500 KM)

13.3.1 ASSISTANCE IN TRACKING AIR-BREATHING TARGETS TO DRIVE MARKET

13.4 MEDIUM-RANGE (50 KM TO 200 KM)

13.4.1 HIGH DEMAND ACROSS DEFENSE AND SECURITY APPLICATIONS TO DRIVE MARKET

13.5 SHORT-RANGE (10 KM TO 50 KM)

13.5.1 ABILITY TO PROFILE WEATHER CELLS AND PROVIDE THREAT ANALYSIS TO DRIVE MARKET

13.6 VERY SHORT-RANGE (13.6.1 USE IN MONITORING OF CRITICAL INFRASTRUCTURE TO DRIVE MARKET

14 AIRBORNE RADARS MARKET, BY DIMENSION

14.1 INTRODUCTION

FIGURE 35 3D SEGMENT TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

TABLE 47 AIRBORNE RADARS MARKET, BY DIMENSION, 2019–2022 (USD MILLION)

TABLE 48 AIRBORNE RADARS MARKET, BY DIMENSION, 2023–2028 (USD MILLION)

14.2 2D

14.2.1 EXTENSIVE USE IN EARLY WARNING AND CONTROL SYSTEMS TO DRIVE MARKET

14.3 3D

14.3.1 TARGET LOCATION ACCURACY TO DRIVE MARKET

14.4 4D

14.4.1 WIDE-SCALE USE IN AUTONOMOUS TACTICAL SURVEILLANCE VEHICLES TO DRIVE MARKET

15 AIRBORNE RADARS MARKET, BY INSTALLATION TYPE

15.1 INTRODUCTION

FIGURE 36 NEW INSTALLATION OF AIRBORNE RADARS TO COMMAND LARGEST SHARE DURING FORECAST PERIOD

TABLE 49 AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2019–2022 (USD MILLION)

TABLE 50 AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2023–2028 (USD MILLION)

15.2 NEW INSTALLATION

15.2.1 GROWING DEFENSE BUDGETS WORLDWIDE TO DRIVE MARKET

15.3 UPGRADE

15.3.1 INTEGRATION OF AIRBORNE SURVEILLANCE RADARS TO DRIVE MARKET

16 REGIONAL ANALYSIS

16.1 INTRODUCTION

FIGURE 37 ASIA PACIFIC MARKET TO ACCOUNT FOR HIGHEST GROWTH FROM 2023 TO 2028

TABLE 51 AIRBORNE RADARS MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 52 AIRBORNE RADARS MARKET, BY REGION, 2023–2028 (USD MILLION)

16.2 RECESSION IMPACT ANALYSIS

TABLE 53 RECESSION IMPACT ANALYSIS

16.3 NORTH AMERICA

16.3.1 RECESSION IMPACT ANALYSIS

16.3.2 PESTLE ANALYSIS

FIGURE 38 NORTH AMERICA: AIRBORNE RADARS MARKET SNAPSHOT

TABLE 54 NORTH AMERICA: AIRBORNE RADARS MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 55 NORTH AMERICA: AIRBORNE RADARS MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 56 NORTH AMERICA: AIRBORNE RADARS MARKET, BY PLATFORM, 2019–2022 (USD MILLION)

TABLE 57 NORTH AMERICA: AIRBORNE RADARS MARKET, BY PLATFORM, 2023–2028 (USD MILLION)

TABLE 58 NORTH AMERICA: AIRBORNE RADARS MARKET, BY FREQUENCY BAND, 2019–2022 (USD MILLION)

TABLE 59 NORTH AMERICA: AIRBORNE RADARS MARKET, BY FREQUENCY BAND, 2023–2028 (USD MILLION)

TABLE 60 NORTH AMERICA: AIRBORNE RADARS MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 61 NORTH AMERICA: AIRBORNE RADARS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 62 NORTH AMERICA: AIRBORNE RADARS MARKET, BY COMMERCIAL AND CIVIL APPLICATION, 2019–2022 (USD MILLION)

TABLE 63 NORTH AMERICA: AIRBORNE RADARS MARKET, BY COMMERCIAL AND CIVIL APPLICATION, 2023–2028 (USD MILLION)

TABLE 64 NORTH AMERICA: AIRBORNE RADARS MARKET, BY DEFENSE AND SECURITY APPLICATION, 2019–2022 (USD MILLION)

TABLE 65 NORTH AMERICA: AIRBORNE RADARS MARKET, BY DEFENSE AND SECURITY APPLICATION, 2023–2028 (USD MILLION)

TABLE 66 NORTH AMERICA: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2019–2022 (USD MILLION)

TABLE 67 NORTH AMERICA: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2023–2028 (USD MILLION)

TABLE 68 NORTH AMERICA: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2019–2022 (USD MILLION)

TABLE 69 NORTH AMERICA: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2023–2028 (USD MILLION)

16.3.3 US

16.3.3.1 Aircraft fleet modernization programs to drive market

TABLE 70 US: AIRBORNE RADARS MARKET, BY PLATFORM, 2019–2022 (USD MILLION)

TABLE 71 US: AIRBORNE RADARS MARKET, BY PLATFORM, 2023–2028 (USD MILLION)

TABLE 72 US: AIRBORNE RADARS MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 73 US: AIRBORNE RADARS MARKET, BY APPLICATION, 2023–2028 (USD

MILLION)

TABLE 74 US: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2019–2022
(USD MILLION)

TABLE 75 US: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2023–2028
(USD MILLION)

TABLE 76 US: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2019–2022 (USD
MILLION)

TABLE 77 US: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2023–2028 (USD
MILLION)

16.3.4 CANADA

16.3.4.1 Increasing R&D investments by government and defense equipment
manufacturers to drive market

TABLE 78 CANADA: AIRBORNE RADARS MARKET, BY PLATFORM, 2019–2022
(USD MILLION)

TABLE 79 CANADA: AIRBORNE RADARS MARKET, BY PLATFORM, 2023–2028
(USD MILLION)

TABLE 80 CANADA: AIRBORNE RADARS MARKET, BY APPLICATION, 2019–2022
(USD MILLION)

TABLE 81 CANADA: AIRBORNE RADARS MARKET, BY APPLICATION, 2023–2028
(USD MILLION)

TABLE 82 CANADA: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE,
2019–2022 (USD MILLION)

TABLE 83 CANADA: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE,
2023–2028 (USD MILLION)

TABLE 84 CANADA: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2019–2022
(USD MILLION)

TABLE 85 CANADA: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2023–2028
(USD MILLION)

16.4 EUROPE

16.4.1 RECESSION IMPACT ANALYSIS

16.4.2 PESTLE ANALYSIS

FIGURE 39 EUROPE: AIRBORNE RADARS MARKET SNAPSHOT

TABLE 86 EUROPE: AIRBORNE RADARS MARKET, BY COUNTRY, 2019–2022
(USD MILLION)

TABLE 87 EUROPE: AIRBORNE RADARS MARKET, BY COUNTRY, 2023–2028
(USD MILLION)

TABLE 88 EUROPE: AIRBORNE RADARS MARKET, BY PLATFORM, 2019–2022
(USD MILLION)

TABLE 89 EUROPE: AIRBORNE RADARS MARKET, BY PLATFORM, 2023–2028

(USD MILLION)

TABLE 90 EUROPE: AIRBORNE RADARS MARKET, BY FREQUENCY BAND, 2019–2022 (USD MILLION)

TABLE 91 EUROPE: AIRBORNE RADARS MARKET, BY FREQUENCY BAND, 2023–2028 (USD MILLION)

TABLE 92 EUROPE: AIRBORNE RADARS MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 93 EUROPE: AIRBORNE RADARS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 94 EUROPE: AIRBORNE RADARS MARKET, BY COMMERCIAL AND CIVIL APPLICATION, 2019–2022 (USD MILLION)

TABLE 95 EUROPE: AIRBORNE RADARS MARKET, BY COMMERCIAL AND CIVIL APPLICATION, 2023–2028 (USD MILLION)

TABLE 96 EUROPE: AIRBORNE RADARS MARKET, BY DEFENSE AND SECURITY APPLICATION, 2019–2022 (USD MILLION)

TABLE 97 EUROPE: AIRBORNE RADARS MARKET, BY DEFENSE AND SECURITY APPLICATION, 2023–2028 (USD MILLION)

TABLE 98 EUROPE: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2019–2022 (USD MILLION)

TABLE 99 EUROPE: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2023–2028 (USD MILLION)

TABLE 100 EUROPE: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2019–2022 (USD MILLION)

TABLE 101 EUROPE: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2023–2028 (USD MILLION)

16.4.3 RUSSIA

16.4.3.1 Ongoing military reform programs and digitization of radar systems to drive market

TABLE 102 RUSSIA: AIRBORNE RADARS MARKET, BY PLATFORM, 2019–2022 (USD MILLION)

TABLE 103 RUSSIA: AIRBORNE RADARS MARKET, BY PLATFORM, 2023–2028 (USD MILLION)

TABLE 104 RUSSIA: AIRBORNE RADARS MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 105 RUSSIA: AIRBORNE RADARS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 106 RUSSIA: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2019–2022 (USD MILLION)

TABLE 107 RUSSIA: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE,

2023–2028 (USD MILLION)

TABLE 108 RUSSIA: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2019–2022 (USD MILLION)

TABLE 109 RUSSIA: AIRBORNE RADAR MARKET, BY TECHNOLOGY, 2023–2028 (USD MILLION)

16.4.4 GERMANY

16.4.4.1 Need to detect and restrict illegal immigrants through UAV-based surveillance to drive market

TABLE 110 GERMANY: AIRBORNE RADARS MARKET, BY PLATFORM, 2019–2022 (USD MILLION)

TABLE 111 GERMANY: AIRBORNE RADARS MARKET, BY PLATFORM, 2023–2028 (USD MILLION)

TABLE 112 GERMANY: AIRBORNE RADARS MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 113 GERMANY: AIRBORNE RADARS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 114 GERMANY: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2019–2022 (USD MILLION)

TABLE 115 GERMANY: AIRBORNE RADAR MARKET, BY INSTALLATION TYPE, 2023–2028 (USD MILLION)

TABLE 116 GERMANY: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2019–2022 (USD MILLION)

TABLE 117 GERMANY: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2023–2028 (USD MILLION)

16.4.5 UK

16.4.5.1 Focus on replacing existing radar systems with advanced early warning and control systems to drive market

TABLE 118 UK: AIRBORNE RADARS MARKET, BY PLATFORM, 2019–2022 (USD MILLION)

TABLE 119 UK: AIRBORNE RADARS MARKET, BY PLATFORM, 2023–2028 (USD MILLION)

TABLE 120 UK: AIRBORNE RADARS MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 121 UK: AIRBORNE RADARS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 122 UK: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2019–2022 (USD MILLION)

TABLE 123 UK: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2023–2028 (USD MILLION)

TABLE 124 UK: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2019–2022 (USD MILLION)

TABLE 125 UK: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2023–2028 (USD MILLION)

16.4.6 ITALY

16.4.6.1 Production of drones for target acquisition and ISR missions to drive market

TABLE 126 ITALY: AIRBORNE RADARS MARKET, BY PLATFORM, 2019–2022 (USD MILLION)

TABLE 127 ITALY: AIRBORNE RADARS MARKET, BY PLATFORM, 2023–2028 (USD MILLION)

TABLE 128 ITALY: AIRBORNE RADARS MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 129 ITALY: AIRBORNE RADARS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 130 ITALY: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2019–2022 (USD MILLION)

TABLE 131 ITALY: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2023–2028 (USD MILLION)

TABLE 132 ITALY: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2019–2022 (USD MILLION)

TABLE 133 ITALY: AIRBORNE RADAR MARKET, BY TECHNOLOGY, 2023–2028 (USD MILLION)

16.4.7 FRANCE

16.4.7.1 Focus on enhancing airborne defense platform capabilities to drive market

TABLE 134 FRANCE: AIRBORNE RADARS MARKET, BY PLATFORM, 2019–2022 (USD MILLION)

TABLE 135 FRANCE: AIRBORNE RADARS MARKET, BY PLATFORM, 2023–2028 (USD MILLION)

TABLE 136 FRANCE: AIRBORNE RADARS MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 137 FRANCE: AIRBORNE RADARS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 138 FRANCE: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2019–2022 (USD MILLION)

TABLE 139 FRANCE: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2023–2028 (USD MILLION)

TABLE 140 FRANCE: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2019–2022 (USD MILLION)

TABLE 141 FRANCE: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2023–2028

(USD MILLION)

16.4.8 REST OF EUROPE

TABLE 142 REST OF EUROPE: AIRBORNE RADARS MARKET, BY PLATFORM, 2019–2022 (USD MILLION)

TABLE 143 REST OF EUROPE: AIRBORNE RADARS MARKET, BY PLATFORM, 2023–2028 (USD MILLION)

TABLE 144 REST OF EUROPE: AIRBORNE RADARS MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 145 REST OF EUROPE: AIRBORNE RADARS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 146 REST OF EUROPE: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2019–2022 (USD MILLION)

TABLE 147 REST OF EUROPE: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2023–2028 (USD MILLION)

TABLE 148 REST OF EUROPE: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2019–2022 (USD MILLION)

TABLE 149 REST OF EUROPE: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2023–2028 (USD MILLION)

16.5 ASIA PACIFIC

16.5.1 RECESSION IMPACT ANALYSIS

16.5.2 ASIA PACIFIC: PESTLE ANALYSIS

FIGURE 40 ASIA PACIFIC: AIRBORNE RADARS MARKET SNAPSHOT

TABLE 150 ASIA PACIFIC: AIRBORNE RADARS MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 151 ASIA PACIFIC: AIRBORNE RADARS MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 152 ASIA PACIFIC: AIRBORNE RADARS MARKET, BY PLATFORM, 2019–2022 (USD MILLION)

TABLE 153 ASIA PACIFIC: AIRBORNE RADARS MARKET, BY PLATFORM, 2023–2028 (USD MILLION)

TABLE 154 ASIA PACIFIC: AIRBORNE RADARS MARKET, BY FREQUENCY BAND, 2019–2022 (USD MILLION)

TABLE 155 ASIA PACIFIC: AIRBORNE RADARS MARKET, BY FREQUENCY BAND, 2023–2028 (USD MILLION)

TABLE 156 ASIA PACIFIC: AIRBORNE RADARS MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 157 ASIA PACIFIC: AIRBORNE RADARS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 158 ASIA PACIFIC: AIRBORNE RADARS MARKET, BY COMMERCIAL AND

CIVIL APPLICATION, 2019–2022 (USD MILLION)

TABLE 159 ASIA PACIFIC: AIRBORNE RADARS MARKET, BY COMMERCIAL AND CIVIL APPLICATION, 2023–2028 (USD MILLION)

TABLE 160 ASIA PACIFIC: AIRBORNE RADARS MARKET, BY DEFENSE AND SECURITY APPLICATION, 2019–2022 (USD MILLION)

TABLE 161 ASIA PACIFIC: AIRBORNE RADARS MARKET, BY DEFENSE AND SECURITY APPLICATION, 2023–2028 (USD MILLION)

TABLE 162 ASIA PACIFIC: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2019–2022 (USD MILLION)

TABLE 163 ASIA PACIFIC: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2023–2028 (USD MILLION)

TABLE 164 ASIA PACIFIC: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2019–2022 (USD MILLION)

TABLE 165 ASIA PACIFIC: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2023–2028 (USD MILLION)

16.5.3 CHINA

16.5.3.1 Increasing investment in advanced early warning systems to drive market

TABLE 166 CHINA: AIRBORNE RADARS MARKET, BY PLATFORM, 2019–2022 (USD MILLION)

TABLE 167 CHINA: AIRBORNE RADARS MARKET, BY PLATFORM, 2023–2028 (USD MILLION)

TABLE 168 CHINA: AIRBORNE RADARS MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 169 CHINA: AIRBORNE RADARS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 170 CHINA: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2019–2022 (USD MILLION)

TABLE 171 CHINA: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2023–2028 (USD MILLION)

TABLE 172 CHINA: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2019–2022 (USD MILLION)

TABLE 173 CHINA: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2023–2028 (USD MILLION)

16.5.4 INDIA

16.5.4.1 Efforts to strengthen air surveillance and early warning capabilities to drive market

TABLE 174 INDIA: AIRBORNE RADARS MARKET, BY PLATFORM, 2019–2022 (USD MILLION)

TABLE 175 INDIA: AIRBORNE RADARS MARKET, BY PLATFORM, 2023–2028 (USD

MILLION)

TABLE 176 INDIA: AIRBORNE RADARS MARKET, BY APPLICATION, 2019–2022
(USD MILLION)

TABLE 177 INDIA: AIRBORNE RADARS MARKET, BY APPLICATION, 2023–2028
(USD MILLION)

TABLE 178 INDIA: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE,
2019–2022 (USD MILLION)

TABLE 179 INDIA: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE,
2023–2028 (USD MILLION)

TABLE 180 INDIA: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2019–2022
(USD MILLION)

TABLE 181 INDIA: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2023–2028
(USD MILLION)

16.5.5 JAPAN

16.5.5.1 Uplifting of self-imposed defense equipment export ban to drive market

TABLE 182 JAPAN: AIRBORNE RADARS MARKET, BY PLATFORM, 2019–2022
(USD MILLION)

TABLE 183 JAPAN: AIRBORNE RADARS MARKET, BY PLATFORM, 2023–2028
(USD MILLION)

TABLE 184 JAPAN: AIRBORNE RADARS MARKET, BY APPLICATION, 2019–2022
(USD MILLION)

TABLE 185 JAPAN: AIRBORNE RADARS MARKET, BY APPLICATION, 2023–2028
(USD MILLION)

TABLE 186 JAPAN: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE,
2019–2022 (USD MILLION)

TABLE 187 JAPAN: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE,
2023–2028 (USD MILLION)

TABLE 188 JAPAN: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2019–2022
(USD MILLION)

TABLE 189 JAPAN: AIRBORNE RADAR MARKET, BY TECHNOLOGY, 2023–2028
(USD MILLION)

16.5.6 SOUTH KOREA

16.5.6.1 Investments in modernizing military against evolving security challenges to
drive market

TABLE 190 SOUTH KOREA: AIRBORNE RADARS MARKET, BY PLATFORM,
2019–2022 (USD MILLION)

TABLE 191 SOUTH KOREA: AIRBORNE RADARS MARKET, BY PLATFORM,
2023–2028 (USD MILLION)

TABLE 192 SOUTH KOREA: AIRBORNE RADARS MARKET, BY APPLICATION,

2019–2022 (USD MILLION)

TABLE 193 SOUTH KOREA: AIRBORNE RADARS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 194 SOUTH KOREA: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2019–2022 (USD MILLION)

TABLE 195 SOUTH KOREA: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2023–2028 (USD MILLION)

TABLE 196 SOUTH KOREA: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2019–2022 (USD MILLION)

TABLE 197 SOUTH KOREA: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2023–2028 (USD MILLION)

16.5.7 AUSTRALIA

16.5.7.1 Rise in demand to replace existing aircraft to drive market

TABLE 198 AUSTRALIA: AIRBORNE RADARS MARKET, BY PLATFORM, 2019–2022 (USD MILLION)

TABLE 199 AUSTRALIA: AIRBORNE RADARS MARKET, BY PLATFORM, 2023–2028 (USD MILLION)

TABLE 200 AUSTRALIA: AIRBORNE RADARS MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 201 AUSTRALIA: AIRBORNE RADARS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 202 AUSTRALIA: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2019–2022 (USD MILLION)

TABLE 203 AUSTRALIA: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2023–2028 (USD MILLION)

TABLE 204 AUSTRALIA: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2019–2022 (USD MILLION)

TABLE 205 AUSTRALIA: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2023–2028 (USD MILLION)

16.5.8 REST OF ASIA PACIFIC

TABLE 206 REST OF ASIA PACIFIC: AIRBORNE RADARS MARKET, BY PLATFORM, 2019–2022 (USD MILLION)

TABLE 207 REST OF ASIA PACIFIC: AIRBORNE RADARS MARKET, BY PLATFORM, 2023–2028 (USD MILLION)

TABLE 208 REST OF ASIA PACIFIC: AIRBORNE RADARS MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 209 REST OF ASIA PACIFIC: AIRBORNE RADARS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 210 REST OF ASIA PACIFIC: AIRBORNE RADARS MARKET, BY

INSTALLATION TYPE, 2019–2022 (USD MILLION)

TABLE 211 REST OF ASIA PACIFIC: AIRBORNE RADARS MARKET, BY
INSTALLATION TYPE, 2023–2028 (USD MILLION)

TABLE 212 REST OF ASIA PACIFIC: AIRBORNE RADARS MARKET, BY
TECHNOLOGY, 2019–2022 (USD MILLION)

TABLE 213 REST OF ASIA PACIFIC: AIRBORNE RADARS MARKET, BY
TECHNOLOGY, 2023–2028 (USD MILLION)

16.6 LATIN AMERICA

16.6.1 RECESSION IMPACT ANALYSIS

16.6.2 PESTLE ANALYSIS

FIGURE 41 LATIN AMERICA: AIRBORNE RADARS MARKET SNAPSHOT

TABLE 214 LATIN AMERICA: AIRBORNE RADARS MARKET, BY COUNTRY,
2019–2022 (USD MILLION)

TABLE 215 LATIN AMERICA: AIRBORNE RADARS MARKET, BY COUNTRY,
2023–2028 (USD MILLION)

TABLE 216 LATIN AMERICA: AIRBORNE RADARS MARKET, BY PLATFORM,
2019–2022 (USD MILLION)

TABLE 217 LATIN AMERICA: AIRBORNE RADARS MARKET, BY PLATFORM,
2023–2028 (USD MILLION)

TABLE 218 LATIN AMERICA: AIRBORNE RADARS MARKET, BY FREQUENCY
BAND, 2019–2022 (USD MILLION)

TABLE 219 LATIN AMERICA: AIRBORNE RADARS MARKET, BY FREQUENCY
BAND, 2023–2028 (USD MILLION)

TABLE 220 LATIN AMERICA: AIRBORNE RADARS MARKET, BY APPLICATION,
2019–2022 (USD MILLION)

TABLE 221 LATIN AMERICA: AIRBORNE RADARS MARKET, BY APPLICATION,
2023–2028 (USD MILLION)

TABLE 222 LATIN AMERICA: AIRBORNE RADARS MARKET, BY COMMERCIAL
AND CIVIL APPLICATION, 2019–2022 (USD MILLION)

TABLE 223 LATIN AMERICA: AIRBORNE RADARS MARKET, BY COMMERCIAL
AND CIVIL APPLICATION, 2023–2028 (USD MILLION)

TABLE 224 LATIN AMERICA: AIRBORNE RADARS MARKET, BY DEFENSE AND
SECURITY APPLICATION, 2019–2022 (USD MILLION)

TABLE 225 LATIN AMERICA: AIRBORNE RADARS MARKET, BY DEFENSE AND
SECURITY APPLICATION, 2023–2028 (USD MILLION)

TABLE 226 LATIN AMERICA: AIRBORNE RADARS MARKET, BY INSTALLATION
TYPE, 2019–2022 (USD MILLION)

TABLE 227 LATIN AMERICA: AIRBORNE RADARS MARKET, BY INSTALLATION
TYPE, 2023–2028 (USD MILLION)

TABLE 228 LATIN AMERICA: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2019–2022 (USD MILLION)

TABLE 229 LATIN AMERICA: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2023–2028 (USD MILLION)

16.6.3 BRAZIL

16.6.3.1 Ongoing military modernization programs to drive market

TABLE 230 BRAZIL: AIRBORNE RADARS MARKET, BY PLATFORM, 2019–2022 (USD MILLION)

TABLE 231 BRAZIL: AIRBORNE RADARS MARKET, BY PLATFORM, 2023–2028 (USD MILLION)

TABLE 232 BRAZIL: AIRBORNE RADARS MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 233 BRAZIL: AIRBORNE RADARS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 234 BRAZIL: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2019–2022 (USD MILLION)

TABLE 235 BRAZIL: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2023–2028 (USD MILLION)

TABLE 236 BRAZIL: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2019–2022 (USD MILLION)

TABLE 237 BRAZIL: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2023–2028 (USD MILLION)

16.6.4 MEXICO

16.6.4.1 Demand for advanced fighter aircraft with airborne warning and control system capabilities to drive market

TABLE 238 MEXICO: AIRBORNE RADARS MARKET, BY PLATFORM, 2019–2022 (USD MILLION)

TABLE 239 MEXICO: AIRBORNE RADARS MARKET, BY PLATFORM, 2023–2028 (USD MILLION)

TABLE 240 MEXICO: AIRBORNE RADARS MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 241 MEXICO: AIRBORNE RADARS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 242 MEXICO: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2019–2022 (USD MILLION)

TABLE 243 MEXICO: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2023–2028 (USD MILLION)

TABLE 244 MEXICO: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2019–2022 (USD MILLION)

TABLE 245 MEXICO: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2023–2028 (USD MILLION)

16.7 MIDDLE EAST & AFRICA

16.7.1 RECESSION IMPACT ANALYSIS

16.7.2 PESTLE ANALYSIS

FIGURE 42 MIDDLE EAST & AFRICA: AIRBORNE RADARS MARKET SNAPSHOT

TABLE 246 MIDDLE EAST & AFRICA: AIRBORNE RADARS MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 247 MIDDLE EAST & AFRICA: AIRBORNE RADARS MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 248 MIDDLE EAST & AFRICA: AIRBORNE RADARS MARKET, BY PLATFORM, 2019–2022 (USD MILLION)

TABLE 249 MIDDLE EAST & AFRICA: AIRBORNE RADARS MARKET, BY PLATFORM, 2023–2028 (USD MILLION)

TABLE 250 MIDDLE EAST & AFRICA: AIRBORNE RADARS MARKET, BY FREQUENCY BAND, 2019–2022 (USD MILLION)

TABLE 251 MIDDLE EAST & AFRICA: AIRBORNE RADARS MARKET, BY FREQUENCY BAND, 2023–2028 (USD MILLION)

TABLE 252 MIDDLE EAST & AFRICA: AIRBORNE RADARS MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 253 MIDDLE EAST & AFRICA: AIRBORNE RADARS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 254 MIDDLE EAST & AFRICA: AIRBORNE RADARS MARKET, BY COMMERCIAL AND CIVIL APPLICATIONS, 2019–2022 (USD MILLION)

TABLE 255 MIDDLE EAST & AFRICA: AIRBORNE RADARS MARKET, BY COMMERCIAL AND CIVIL APPLICATIONS, 2023–2028 (USD MILLION)

TABLE 256 MIDDLE EAST & AFRICA: AIRBORNE RADARS MARKET, BY DEFENSE AND SECURITY APPLICATION, 2019–2022 (USD MILLION)

TABLE 257 MIDDLE EAST & AFRICA: AIRBORNE RADARS MARKET, BY DEFENSE AND SECURITY APPLICATION, 2023–2028 (USD MILLION)

TABLE 258 MIDDLE EAST & AFRICA: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2019–2022 (USD MILLION)

TABLE 259 MIDDLE EAST & AFRICA: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2023–2028 (USD MILLION)

TABLE 260 MIDDLE EAST & AFRICA: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2019–2022 (USD MILLION)

TABLE 261 MIDDLE EAST & AFRICA: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2023–2028 (USD MILLION)

16.7.3 TURKEY

16.7.3.1 Increasing focus on procuring low-altitude airborne surveillance radar to drive market

TABLE 262 TURKEY: AIRBORNE RADARS MARKET, BY PLATFORM, 2019–2022 (USD MILLION)

TABLE 263 TURKEY: AIRBORNE RADARS MARKET, BY PLATFORM, 2023–2028 (USD MILLION)

TABLE 264 TURKEY: AIRBORNE RADARS MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 265 TURKEY: AIRBORNE RADARS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 266 TURKEY: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2019–2022 (USD MILLION)

TABLE 267 TURKEY: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2023–2028 (USD MILLION)

TABLE 268 TURKEY: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2019–2022 (USD MILLION)

TABLE 269 TURKEY: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2023–2028 (USD MILLION)

16.7.4 SAUDI ARABIA

16.7.4.1 Ongoing border security operations to drive market

TABLE 270 SAUDI ARABIA: AIRBORNE RADARS MARKET, BY PLATFORM, 2019–2022 (USD MILLION)

TABLE 271 SAUDI ARABIA: AIRBORNE RADARS MARKET, BY PLATFORM, 2023–2028 (USD MILLION)

TABLE 272 SAUDI ARABIA: AIRBORNE RADARS MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 273 SAUDI ARABIA: AIRBORNE RADARS MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 274 SAUDI ARABIA: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2019–2022 (USD MILLION)

TABLE 275 SAUDI ARABIA: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE, 2023–2028 (USD MILLION)

TABLE 276 SAUDI ARABIA: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2019–2022 (USD MILLION)

TABLE 277 SAUDI ARABIA: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2023–2028 (USD MILLION)

16.7.5 ISRAEL

16.7.5.1 Presence of major manufacturers of airborne radars to drive market

TABLE 278 ISRAEL: AIRBORNE RADARS MARKET, BY PLATFORM, 2019–2022

(USD MILLION)

TABLE 279 ISRAEL: AIRBORNE RADARS MARKET, BY PLATFORM, 2023–2028

(USD MILLION)

TABLE 280 ISRAEL: AIRBORNE RADARS MARKET, BY APPLICATION, 2019–2022

(USD MILLION)

TABLE 281 ISRAEL: AIRBORNE RADARS MARKET, BY APPLICATION, 2023–2028

(USD MILLION)

TABLE 282 ISRAEL: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE,
2019–2022 (USD MILLION)

TABLE 283 ISRAEL: AIRBORNE RADARS MARKET, BY INSTALLATION TYPE,
2023–2028 (USD MILLION)

TABLE 284 ISRAEL: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2019–2022
(USD MILLION)

TABLE 285 ISRAEL: AIRBORNE RADARS MARKET, BY TECHNOLOGY, 2023–2028
(USD MILLION)

16.7.6 SOUTH AFRICA

16.7.6.1 Increasing geopolitical instability to drive market

TABLE 286 SOUTH AFRICA: AIRBORNE RADARS MARKET, BY PLATFORM,
2019–2022 (USD MILLION)

TABLE 287 SOUTH AFRICA: AIRBORNE RADARS MARKET, BY PLATFORM,
2023–2028 (USD MILLION)

TABLE 288 SOUTH AFRICA: AIRBORNE RADARS MARKET, BY APPLICATION,
2019–2022 (USD MILLION)

TABLE 289 SOUTH AFRICA: AIRBORNE RADARS MARKET, BY APPLICATION,
2023–2028 (USD MILLION)

TABLE 290 SOUTH AFRICA: AIRBORNE RADARS MARKET, BY INSTALLATION
TYPE, 2019–2022 (USD MILLION)

TABLE 291 SOUTH AFRICA: AIRBORNE RADARS MARKET, BY INSTALLATION
TYPE, 2023–2028 (USD MILLION)

TABLE 292 SOUTH AFRICA: AIRBORNE RADARS MARKET, BY TECHNOLOGY,
2019–2022 (USD MILLION)

TABLE 293 SOUTH AFRICA: AIRBORNE RADARS MARKET, BY TECHNOLOGY,
2023–2028 (USD MILLION)

17 COMPETITIVE LANDSCAPE

17.1 INTRODUCTION

TABLE 294 STRATEGIES ADOPTED BY KEY PLAYERS IN AIRBORNE RADARS
MARKET, 2022–2023

17.2 RANKING ANALYSIS, 2022

FIGURE 43 MARKET RANKING OF KEY PLAYERS, 2022

17.3 REVENUE ANALYSIS, 2022

FIGURE 44 REVENUE ANALYSIS OF KEY PLAYERS, 2022

17.4 MARKET SHARE ANALYSIS, 2022

FIGURE 45 MARKET SHARE OF KEY PLAYERS, 2022

TABLE 295 AIRBORNE RADARS MARKET: DEGREE OF COMPETITION

17.5 COMPANY EVALUATION MATRIX

17.5.1 STARS

17.5.2 EMERGING LEADERS

17.5.3 PERVASIVE PLAYERS

17.5.4 PARTICIPANTS

FIGURE 46 COMPANY EVALUATION MATRIX, 2022

17.6 COMPANY FOOTPRINT

TABLE 296 COMPANY FOOTPRINT

TABLE 297 SEGMENT FOOTPRINT

17.7 STARTUP/SME EVALUATION MATRIX

17.7.1 PROGRESSIVE COMPANIES

17.7.2 RESPONSIVE COMPANIES

17.7.3 DYNAMIC COMPANIES

17.7.4 STARTING BLOCKS

FIGURE 47 STARTUP/SME EVALUATION MATRIX, 2022

TABLE 298 AIRBORNE RADARS MARKET: KEY STARTUPS/SMES

17.7.4.1 COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES

TABLE 299 COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES

17.8 COMPETITIVE SCENARIOS AND TRENDS

17.8.1 DEALS

TABLE 300 DEALS, 2020–2023

18 COMPANY PROFILES

(Business Overview, Products Offered, Recent Developments, MnM View Right to win, Strategic choices made, Weaknesses and competitive threats) *

18.1 KEY PLAYERS

18.1.1 RAYTHEON TECHNOLOGIES CORPORATION

TABLE 301 RAYTHEON TECHNOLOGIES CORPORATION: COMPANY OVERVIEW

FIGURE 48 RAYTHEON TECHNOLOGIES CORPORATION: COMPANY SNAPSHOT

TABLE 302 RAYTHEON TECHNOLOGIES CORPORATION:

PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 303 RAYTHEON TECHNOLOGIES CORPORATION: DEALS**18.1.2 LOCKHEED MARTIN CORPORATION****TABLE 304 LOCKHEED MARTIN CORPORATION: COMPANY OVERVIEW****FIGURE 49 LOCKHEED MARTIN CORPORATION: COMPANY SNAPSHOT****TABLE 305 LOCKHEED MARTIN CORPORATION:****PRODUCTS/SERVICES/SOLUTIONS OFFERED****TABLE 306 LOCKHEED MARTIN CORPORATION: DEALS****18.1.3 LEONARDO SPA****TABLE 307 LEONARDO SPA: COMPANY OVERVIEW****FIGURE 50 LEONARDO SPA: COMPANY SNAPSHOT****TABLE 308 LEONARDO SPA: PRODUCTS/SERVICES/SOLUTIONS OFFERED****TABLE 309 LEONARDO SPA: DEALS****18.1.4 NORTHROP GRUMMAN CORPORATION****TABLE 310 NORTHROP GRUMMAN CORPORATION: COMPANY OVERVIEW****FIGURE 51 NORTHROP GRUMMAN CORPORATION: COMPANY SNAPSHOT****TABLE 311 NORTHROP GRUMMAN CORPORATION:****PRODUCTS/SERVICES/SOLUTIONS OFFERED****TABLE 312 NORTHROP GRUMMAN CORPORATION: DEALS****18.1.5 THALES GROUP****TABLE 313 THALES GROUP: COMPANY OVERVIEW****FIGURE 52 THALES GROUP: COMPANY SNAPSHOT****TABLE 314 THALES GROUP: PRODUCTS/SERVICES/SOLUTIONS OFFERED****18.1.6 SAAB AB****TABLE 315 SAAB AB: COMPANY OVERVIEW****FIGURE 53 SAAB AB: COMPANY SNAPSHOT****TABLE 316 SAAB AB: PRODUCTS/SERVICES/SOLUTIONS OFFERED****TABLE 317 SAAB AB: DEALS****18.1.7 BAE SYSTEMS PLC****TABLE 318 BAE SYSTEMS PLC: COMPANY OVERVIEW****FIGURE 54 BAE SYSTEMS PLC: COMPANY SNAPSHOT****TABLE 319 BAE SYSTEMS PLC: PRODUCTS/SERVICES/SOLUTIONS OFFERED****TABLE 320 BAE SYSTEMS PLC: DEALS****18.1.8 THE BOEING COMPANY****TABLE 321 THE BOEING COMPANY: COMPANY OVERVIEW****FIGURE 55 THE BOEING COMPANY: COMPANY SNAPSHOT****TABLE 322 THE BOEING COMPANY: PRODUCTS/SERVICES/SOLUTIONS OFFERED****TABLE 323 THE BOEING COMPANY: DEALS****18.1.9 ISRAEL AEROSPACE INDUSTRIES LTD.**

TABLE 324 ISRAEL AEROSPACE INDUSTRIES LTD.: COMPANY OVERVIEW
FIGURE 56 ISRAEL AEROSPACE INDUSTRIES LTD.: COMPANY SNAPSHOT

TABLE 325 ISRAEL AEROSPACE INDUSTRIES LTD.:
PRODUCTS/SERVICES/SOLUTIONS OFFERED

TABLE 326 ISRAEL AEROSPACE INDUSTRIES LTD.: DEALS

18.1.10 ASELSAN AS

TABLE 327 ASELSAN AS: COMPANY OVERVIEW

TABLE 328 ASELSAN AS: PRODUCTS/SERVICES/SOLUTIONS OFFERED

TABLE 329 ASELSAN AS: DEALS

18.1.11 SRC, INC.

TABLE 330 SRC, INC.: COMPANY OVERVIEW

TABLE 331 SRC, INC.: PRODUCTS/SERVICES/SOLUTIONS OFFERED

TABLE 332 SRC, INC.: OTHERS

18.1.12 HENSOLDT AG

TABLE 333 HENSOLDT AG: COMPANY OVERVIEW

TABLE 334 HENSOLDT AG: PRODUCTS/SERVICES/SOLUTIONS OFFERED

TABLE 335 HENSOLDT AG: DEALS

18.1.13 ELBIT SYSTEMS LTD.

TABLE 336 ELBIT SYSTEMS LTD.: COMPANY OVERVIEW

FIGURE 57 ELBIT SYSTEMS LTD.: COMPANY SNAPSHOT

TABLE 337 ELBIT SYSTEMS LTD.: PRODUCTS/SERVICES/SOLUTIONS OFFERED

TABLE 338 ELBIT SYSTEMS LTD.: DEALS

18.1.14 INDRA SISTEMAS, SA

TABLE 339 INDRA SISTEMAS, SA: COMPANY OVERVIEW

FIGURE 58 INDRA SISTEMAS, SA: COMPANY SNAPSHOT

TABLE 340 INDRA SISTEMAS, SA: PRODUCTS/SERVICES/SOLUTIONS OFFERED

TABLE 341 INDRA SISTEMAS, SA: DEALS

18.1.15 HONEYWELL INTERNATIONAL INC.

TABLE 342 HONEYWELL INTERNATIONAL INC.: COMPANY OVERVIEW

FIGURE 59 HONEYWELL INTERNATIONAL INC.: COMPANY SNAPSHOT

TABLE 343 HONEYWELL INTERNATIONAL INC.:

PRODUCTS/SERVICES/SOLUTIONS OFFERED

TABLE 344 HONEYWELL INTERNATIONAL INC.: DEALS

18.1.16 L3HARRIS TECHNOLOGIES, INC.

TABLE 345 L3HARRIS TECHNOLOGIES, INC.: COMPANY OVERVIEW

FIGURE 60 L3HARRIS TECHNOLOGIES, INC.: COMPANY SNAPSHOT

TABLE 346 L3HARRIS TECHNOLOGIES, INC.: PRODUCTS/SERVICES/SOLUTIONS
OFFERED

TABLE 347 L3HARRIS TECHNOLOGIES, INC: DEALS

18.1.17 TELEPHONICS CORPORATION

TABLE 348 TELEPHONICS CORPORATION: COMPANY OVERVIEW

TABLE 349 TELEPHONICS CORPORATION: PRODUCTS/SERVICES/SOLUTIONS OFFERED

18.1.18 MITSUBISHI ELECTRIC CORPORATION

TABLE 350 MITSUBISHI ELECTRIC CORPORATION: COMPANY OVERVIEW

FIGURE 61 MITSUBISHI ELECTRIC CORPORATION: COMPANY SNAPSHOT

TABLE 351 MITSUBISHI ELECTRIC CORPORATION: PRODUCTS/SERVICES/SOLUTIONS OFFERED

TABLE 352 MITSUBISHI ELECTRIC CORPORATION: DEALS

18.1.19 AIRBUS SE

TABLE 353 AIRBUS SE: COMPANY OVERVIEW

FIGURE 62 AIRBUS SE: COMPANY SNAPSHOT

TABLE 354 AIRBUS SE: PRODUCTS/SERVICES/SOLUTIONS OFFERED

TABLE 355 AIRBUS SE: DEALS

18.1.20 AINSTEIN RADAR SYSTEMS

TABLE 356 AINSTEIN RADAR SYSTEMS: COMPANY OVERVIEW

TABLE 357 AINSTEIN RADAR SYSTEMS: PRODUCTS/SERVICES/SOLUTIONS OFFERED

18.1.21 OPTIMARE SYSTEMS GMBH

TABLE 358 OPTIMARE SYSTEMS GMBH: COMPANY OVERVIEW

TABLE 359 OPTIMARE SYSTEMS GMBH: PRODUCTS/SERVICES/SOLUTIONS OFFERED

TABLE 360 OPTIMARE SYSTEMS GMBH: DEALS

18.1.22 JSC RADAR MMS

TABLE 361 JSC RADAR MMS: COMPANY OVERVIEW

TABLE 362 JSC RADAR MMS: PRODUCTS/SERVICES/SOLUTIONS OFFERED

18.1.23 GARMIN LIMITED

TABLE 363 GARMIN LIMITED: COMPANY OVERVIEW

FIGURE 63 GARMIN LIMITED: COMPANY SNAPSHOT

TABLE 364 GARMIN LIMITED: PRODUCTS/SERVICES/SOLUTIONS OFFERED

18.2 OTHER PLAYERS

18.2.1 METASENSING

18.2.2 BHARAT ELECTRONICS LTD.

*Details on Business Overview, Products Offered, Recent Developments, MnM View, Right to win, Strategic choices made, Weaknesses and competitive threats might not be captured in case of unlisted companies.

19 APPENDIX

19.1 DISCUSSION GUIDE

19.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

19.3 CUSTOMIZATION OPTIONS

19.4 RELATED REPORT

19.5 AUTHOR DETAILS

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