

# **Space On-board Computing Platform Market by Platform, Application (Earth Observation, Navigation, Communication, Military & Scientific), Orbit, Communication Frequency, Technology, and Region (North America, Europe, APAC and RoW) - Forecast to 2027**

<https://marketpublishers.com/r/SEA3D4BFAD17EN.html>

Date: May 2022

Pages: 216

Price: US\$ 4,950.00 (Single User License)

ID: SEA3D4BFAD17EN

## **Abstracts**

The space on-board computing platform market is estimated to be USD 1.3 billion in 2022 and is projected to reach USD 2.3 billion by 2027, at a CAGR of 12.1% from 2022 to 2027. Growth of this market can be attributed to the rise in trade of space on-board computing platform, developments in the defense sector, and national security sector.

“Rise in space exploration missions”

Public and private initiatives in space exploration with a converging global interest in moon exploration will increase in the coming future. Global government investments in space exploration totaled USD 14.6 billion in 2017, a 6% increase from 2016. In terms of applications, moon and Mars explorations are expected to account for the majority of space missions to be launched by 2027, as lunar exploration becomes the focus of private and public stakeholders. 18 missions are anticipated to be launched for other deep space exploration, while the remaining missions will be dedicated to Mars exploration.

Space explorations provide tangible and intangible benefits for humanity in the long term. The Low Earth Orbit (LEO) research and exploration help provide solutions for various global services, such as communication, global positioning, oceanography, surveillance, and astronomy.

Thus, global expenditures have grown in the past 5 years, driven by programs in leading countries and new countries investing in space exploration. The development of high-tech space on-board computing platforms enables more advanced features. Technological breakthroughs and insights from past space missions have inspired new players to invest in this market due to the significant opportunities.

“Increasing use of small satellites in various applications”

Small satellites have gained widespread use in commercial, civil, government, and military applications. The affordability of these satellite missions has bolstered civil and commercial applications by offering an inexpensive means of exploring well-focused scientific research objectives, such as monitoring the space radiation environment, updating the international geomagnetic reference field, or providing an early proof-of-concept for the development of colossal infrastructural projects.

Several drawbacks, such as the limited on-board power provision for hardware components support, low accuracy in attitude knowledge, control for remote sensing, and inadequate command and data-handling capabilities, have already been addressed. This has resulted in the development of advanced nanosatellite and microsatellite capabilities. In-orbit autonomy of such satellites is also being worked upon to further extend mission capabilities. As a result of these developments, small satellites can meet the requirements of various application areas, such as navigation, communication, and earth observation, thereby opening opportunities for the growth of the nanosatellite and microsatellite markets.

“Medium Satellites: The largest segment of the Space on-board computing platform market, by Platform.”

Medium satellites have a wet mass (including fuel) between 150 kg and 1,000 kg. The operational and manufacturing costs of space on-board computing platforms used in medium satellites are higher than those of small satellites because of the presence of additional payloads, higher requirement of temperature tolerance, and radiation hardness. These satellites are used for applications such as climate & environment monitoring, Earth observation & meteorology, scientific research & exploration, and surveillance & security.

“Low Earth Orbit (LEO): The fastest-growing segment of the space on-board computing platform market, by Orbit “

Satellites in the LEO are placed between 500 and 1,500 kilometers above the surface of the Earth. They are visible for a period of 95 to 120 minutes, as they satellites circulate in a lower orbit. There is a growing demand for space on-board computing platform systems that manage all operations in CubeSats and small satellites, right from orbit control and orbital transfers by controlling propulsion systems to managing its IO devices to perform the required tasks. The growth of the space sector has led to the greater use of advanced components, which create many opportunities for advancements in space on-board computing platforms. Companies such as MDA (Canada), Endurosat (Bulgaria), and Ramon Space (Israel) are some of the key developers of space on-board computing platforms for LEO satellites that are used for Earth observation, communication, and navigation applications.

“North America: The largest contributing region in the space on-board computing platform market.”

The US and Canada are key countries considered for market analysis in the North American region. Space agencies of these countries are involved in the development of technologically advanced space on-board computing platforms. Well-established and prominent manufacturers of these platforms, such as Lockheed Martin Corporation (US), Northrop Grumman Corporation (US), Honeywell International Inc.(US), Raytheon Technologies Corporation (US), and MDA (Canada), are based in this region.

#### Breakdown of primaries

The study contains insights from various industry experts, ranging from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

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

By Designation: CLevel–35%; Directors–25%;and Others–40%

By Region: North America–40%; Europe–20%; AsiaPacific–30%; Middle East & Africa–5%; and South America–5%

SAAB AB (Sweden), Raytheon Technologies (US), Honeywell International Inc. (US), Thales Group (France), BAE Systems (UK), Leonardo S.p.A. (Italy), and Northrop Grumman Corp. (US)are some of the leading players operating in the space on-board

computing platform market report.

### Research Coverage

The study covers the space on-board computing platform market across various segments and subsegments. It aims at estimating the size and growth potential of this market across different segments based on Application, Platform, Communication Frequency, Orbit, Technology, and region. This study also includes an in-depth competitive analysis of the key players in the market, along with their company profiles, key observations related to their product and business offerings, recent developments undertaken by them, and key market strategies adopted by them.

### Reasons to Buy this Report

This report is expected to help market leaders/new entrants with information on the closest approximations of the revenue numbers for the overall space on-board computing platform market and its segments. This study is also expected to provide regionwise information about the end use, and wherein space on-board computing platform are used. This report aims at helping the stakeholders understand the competitive landscape of the market, gain insights to improve the position of their businesses and plan suitable go-to-market strategies. This report is also expected to help them understand the pulse of the market and provide them with information on key drivers, restraints, challenges, and opportunities influencing the growth of the market.

## Contents

### 1 INTRODUCTION

1.1 OBJECTIVES OF THE STUDY

1.2 MARKET DEFINITION

1.3 MARKET SCOPE

1.3.1 MARKETS COVERED

FIGURE 1 SPACE ON-BOARD COMPUTING PLATFORM MARKET SEGMENTATION

1.3.2 REGIONAL SCOPE

1.3.3 YEARS CONSIDERED FOR THE STUDY

1.4 INCLUSIONS & EXCLUSIONS

1.5 CURRENCY & PRICING

1.6 USD EXCHANGE RATES

1.7 LIMITATIONS

1.8 MARKET STAKEHOLDERS

### 2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 REPORT PROCESS FLOW

FIGURE 3 RESEARCH DESIGN

2.1.1 SECONDARY DATA

2.1.2 PRIMARY DATA

2.1.2.1 Key data from primary sources

2.1.2.2 Key primary sources

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

2.1.3 DEMAND-SIDE INDICATORS

2.1.4 SUPPLY-SIDE ANALYSIS

2.2 MARKET SIZE ESTIMATION

2.2.1 SEGMENTS AND SUBSEGMENTS

2.3 RESEARCH APPROACH & METHODOLOGY

2.3.1 BOTTOM-UP APPROACH

TABLE 1 SPACE ON-BOARD COMPUTING PLATFORM MARKET ESTIMATION PROCEDURE

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 DATA TRIANGULATION

#### 2.4.1 TRIANGULATION THROUGH PRIMARY AND SECONDARY RESEARCH

## 2.5 GROWTH RATE ASSUMPTIONS

## 2.6 ASSUMPTIONS FOR THE RESEARCH STUDY

## 2.7 RISKS

## 3 EXECUTIVE SUMMARY

FIGURE 8 COMMUNICATION APPLICATION TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

FIGURE 9 MEDIUM SATELLITES TO DOMINATE MARKET DURING FORECAST PERIOD

FIGURE 10 S-BAND SEGMENT TO COMMAND LARGEST SHARE DURING FORECAST PERIOD

FIGURE 11 LOW EARTH ORBIT SEGMENT TO LEAD MARKET DURING FORECAST PERIOD

FIGURE 12 NORTH AMERICA TO HOLD LARGEST SHARE OF SPACE ON-BOARD COMPUTING PLATFORM MARKET IN 2022

## 4 PREMIUM INSIGHTS

4.1 ATTRACTIVE GROWTH OPPORTUNITIES IN SPACE ON-BOARD COMPUTING PLATFORM MARKET

FIGURE 13 INCREASING DEMAND FOR COMMUNICATION SATELLITES RESPONSIBLE FOR MARKET GROWTH

4.2 SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION

FIGURE 14 NAVIGATION SEGMENT TO COMMAND MARKET FROM 2018 TO 2027

4.3 SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY PLATFORM

FIGURE 15 MEDIUM SATELLITES EXPECTED TO DOMINATE MARKET FROM 2018 TO 2027

4.4 SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY COMMUNICATION FREQUENCY

FIGURE 16 S-BAND SEGMENT TO DOMINATE MARKET FROM 2018 TO 2027

4.5 SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT

FIGURE 17 LOW EARTH ORBIT SEGMENT TO WITNESS UPWARD TREND FROM 2018 TO 2027

4.6 SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY COUNTRY

FIGURE 18 US PROJECTED TO BE FASTEST-GROWING MARKET FROM 2022 TO

2027

## 5 MARKET OVERVIEW

### 5.1 INTRODUCTION

### 5.2 MARKET DYNAMICS

#### FIGURE 19 SPACE ON-BOARD COMPUTING PLATFORM MARKET DYNAMICS

##### 5.2.1 DRIVERS

5.2.1.1 Rise in space exploration missions

#### TABLE 2 LARGEST SPACE MISSIONS FROM 2020 TO 2026

5.2.1.2 Increasing use of small satellites in various applications

#### FIGURE 20 SMALL SATELLITE LAUNCHES (2015-2021)

5.2.1.3 Software-defined payloads for communication satellites

5.2.1.4 Demand for Earth observation imagery and analytics

5.2.1.5 New application areas for CubeSats

##### 5.2.2 RESTRAINTS

5.2.2.1 Absence of cohesive government policies

5.2.2.2 Export restrictions on US manufacturers

##### 5.2.3 OPPORTUNITIES

5.2.3.1 Use of software-defined technology for flexibility to alter space missions

5.2.3.2 Development of satellite networks for internet access in areas without broadband connectivity

5.2.3.3 Government investments in space technology

##### 5.2.4 CHALLENGES

5.2.4.1 Concerns over space debris

5.2.4.2 Use of COTS components and systems in satellites

##### 5.2.5 DEMAND-SIDE IMPACT

5.2.5.1 Key developments from January 2019 to March 2022

#### TABLE 3 KEY DEVELOPMENTS IN SPACE ON-BOARD COMPUTING PLATFORM MARKET, 2019-2022

### 5.3 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESSES

#### FIGURE 21 TRENDS AND DISRUPTIONS IMPACTING CUSTOMERS

### 5.4 MARKET ECOSYSTEM

#### FIGURE 22 SPACE ON-BOARD COMPUTING PLATFORM: MARKET ECOSYSTEM

##### 5.4.1 PROMINENT COMPANIES

##### 5.4.2 PRIVATE AND SMALL ENTERPRISES

##### 5.4.3 END USERS

#### TABLE 4 SPACE ON-BOARD COMPUTING PLATFORM MARKET ECOSYSTEM

### 5.5 PRICING ANALYSIS

## 5.5.1 AVERAGE SELLING PRICE ANALYSIS OF SPACE ON-BOARD COMPUTING PLATFORMS IN 2021

FIGURE 23 AVERAGE SELLING PRICE OF SPACE ON-BOARD COMPUTING PLATFORM (ESA) OFFERED BY TOP PLAYERS

## 5.6 TARIFF REGULATORY LANDSCAPE

5.6.1 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER AGENCIES

5.6.2 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER AGENCIES

5.6.3 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER AGENCIES

5.6.4 REST OF THE WORLD: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER AGENCIES

## 5.7 TRADE DATA

5.7.1 TRADE ANALYSIS

TABLE 5 COUNTRY-WISE EXPORTS, 2019-2021 (USD THOUSAND)

TABLE 6 COUNTRY-WISE EXPORTS, 2019-2021 (USD THOUSAND)

## 5.8 PATENT ANALYSIS

FIGURE 24 MAJOR PATENTS FOR SPACE ON-BOARD COMPUTING PLATFORMS

TABLE 7 LIST OF MAJOR PATENTS FOR SPACE ON-BOARD COMPUTING PLATFORMS

## 5.9 VALUE CHAIN ANALYSIS OF SPACE ON-BOARD COMPUTING PLATFORM MARKET

FIGURE 25 VALUE CHAIN ANALYSIS

## 5.10 TECHNOLOGY ANALYSIS

5.10.1 KEY TECHNOLOGY

5.10.1.1 Introduction of distributed computing architecture in satellites

5.10.2 COMPLEMENTARY TECHNOLOGY

5.10.2.1 Deployment of 5G technology

FIGURE 26 COUNTRY-WISE AVAILABILITY OF 5G NETWORK (2021)

## 5.11 PORTER'S FIVE FORCES MODEL

5.11.1 SPACE ON-BOARD COMPUTING PLATFORM MARKET: PORTER'S FIVE FORCES ANALYSIS

FIGURE 27 SPACE ON-BOARD COMPUTING PLATFORM MARKET: PORTER'S FIVE FORCES ANALYSIS

5.11.2 THREAT OF NEW ENTRANTS

5.11.3 THREAT OF SUBSTITUTES

5.11.4 BARGAINING POWER OF SUPPLIERS

5.11.5 BARGAINING POWER OF BUYERS



- 5.11.6 INTENSITY OF COMPETITIVE RIVALRY
- 5.12 KEY STAKEHOLDERS & BUYING CRITERIA
  - 5.12.1 KEY STAKEHOLDERS IN BUYING PROCESS
  - FIGURE 28 INFLUENCE OF STAKEHOLDERS IN BUYING SPACE ON-BOARD COMPUTERS, BY APPLICATION
  - TABLE 8 INFLUENCE OF STAKEHOLDERS IN BUYING SPACE ON-BOARD COMPUTING PLATFORM, BY APPLICATION (%)
  - 5.12.2 BUYING CRITERIA
  - FIGURE 29 KEY BUYING CRITERIA FOR SPACE ON-BOARD COMPUTING PLATFORM, BY PLATFORM
  - TABLE 9 KEY BUYING CRITERIA FOR SPACE ON-BOARD COMPUTING PLATFORM, BY PLATFORM
- 5.13 USE CASES
  - 5.13.1 RADIATION HARDENED POWER PC (RHPPC) ON-BOARD COMPUTERS DEVELOPED BY HONEYWELL INTERNATIONAL INC.
- 5.14 KEY CONFERENCES & EVENTS, 2022-23
- TABLE 10 SPACE ON-BOARD COMPUTING PLATFORM MARKET: DETAILED LIST OF CONFERENCES & EVENTS
- 5.15 OPERATIONAL DATA
- TABLE 11 NUMBER OF SATELLITES LAUNCHED, BY TYPE, 2015-2021

## **6 INDUSTRY TRENDS**

- 6.1 INTRODUCTION
- 6.2 SUPPLY CHAIN ANALYSIS
- FIGURE 30 SUPPLY CHAIN ANALYSIS
  - 6.2.1 MAJOR COMPANIES
  - 6.2.2 SMALL AND MEDIUM ENTERPRISES
  - 6.2.3 END USERS/CUSTOMERS
- 6.3 EMERGING INDUSTRY TRENDS
  - 6.3.1 LOW POWER DEVICES
  - 6.3.2 NEW ARCHITECTURES IN SPACE ON-BOARD COMPUTING PLATFORMS
  - 6.3.3 USE OF SMALL SATELLITES TO PROVIDE COMMUNICATION SERVICES
  - FIGURE 31 NUMBER OF SMALL SATELLITES LAUNCHED FOR COMMUNICATION SERVICES (2015 – 2021)
- 6.4 IMPACT OF MEGATRENDS
  - 6.4.1 5G SPACE NETWORK
  - FIGURE 32 TOP 8 COUNTRIES WITH 5G DEPLOYMENT
    - 6.4.1.1 Use cases of 5G space network

6.4.1.1.1 Role of LEO satellites in 5G

6.4.1.1.2 ARTES telecommunications space initiative

6.4.1.1.3 Inmarsat to deploy new type of 5G compatible satellite network

6.4.1.1.4 5G new radio over satellite communication network

6.4.2 DEPLOYMENT OF EARTH OBSERVATION SATELLITES

FIGURE 33 NUMBER OF EARTH OBSERVATION SATELLITES LAUNCHED FROM

**2015 TO 2021**

6.4.2.1 Use cases of Earth observation satellite launches

6.4.2.1.1 Taranis launched by France space agency (CNES)

6.4.2.1.2 EOS-4 Mission by Indian Space Research Organisation (ISRO)

6.5 INNOVATIONS AND PATENT REGISTRATIONS

## **7 SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION**

7.1 INTRODUCTION

FIGURE 34 COMMUNICATION SEGMENT TO GROW FASTEST DURING FORECAST PERIOD

TABLE 12 SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 13 SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

7.2 NAVIGATION

7.2.1 DEMAND FOR MAPPING AND NAVIGATION SATELLITES DRIVES SEGMENT

7.3 EARTH OBSERVATION

7.3.1 SIGNIFICANT ADVANCEMENTS IN GEOSPATIAL IMAGERY ANALYTICS FUELS SEGMENT

7.4 COMMUNICATION

7.4.1 5G AND MODERN HARDWARE SYSTEMS PRESENT OPPORTUNITIES IN SATELLITE-ENABLED COMMUNICATION

7.5 MILITARY & SCIENTIFIC

7.5.1 NEED TO EXPLORE TACTICAL UTILITY OF SPACE INTELLIGENCE AND RECONNAISSANCE BOOSTS SEGMENT

7.6 OTHERS

## **8 SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY PLATFORM**

8.1 INTRODUCTION

FIGURE 35 NANOSATELLITES SEGMENT TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

TABLE 14 SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY PLATFORM, 2018–2021 (USD MILLION)

TABLE 15 SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY PLATFORM, 2022–2027 (USD MILLION)

8.2 NANOSATELLITES (1 TO 10 KG)

8.2.1 DEMAND FOR MINIATURE SATELLITES IN SPACE APPLICATIONS BOOSTS MARKET

8.3 MICROSATELLITES (10 TO 50 KG)

8.3.1 INCREASED USE OF MICROSATELLITES FOR REMOTE SENSING AND NAVIGATION BOOSTS SEGMENT

8.4 SMALL SATELLITES (50 TO 150 KG)

8.4.1 SMALLSAT TECH DEVELOPMENT TO PLAY IMPORTANT ROLE IN SPACE ON-BOARD COMPUTING ADVANCEMENT

8.5 MEDIUM SATELLITES (150 TO 1000 KG)

8.5.1 INCREASING NUMBER OF MEDIUM SATELLITE LAUNCHES FOR SCIENTIFIC RESEARCH FUELS SEGMENT

8.6 LARGE SATELLITES (> 1,000 KG)

8.6.1 LARGE SATELLITES MANUFACTURED ONLY BY MAJOR PLAYERS

8.7 SPACECRAFT

8.7.1 SEGMENT DRIVEN BY DEVELOPMENT OF NEW, CREWED, AND UNCREWED SPACECRAFT

## **9 SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY COMMUNICATION FREQUENCY**

9.1 INTRODUCTION

FIGURE 36 X-BAND SEGMENT TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

TABLE 16 SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY COMMUNICATION FREQUENCY, 2018–2021 (USD MILLION)

TABLE 17 SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY COMMUNICATION FREQUENCY, 2022–2027 (USD MILLION)

9.2 S-BAND

9.2.1 INCREASING DEMAND FOR COMMUNICATION SATELLITES IN NORTH AMERICA DRIVES SEGMENT

9.3 X-BAND

9.3.1 DEMAND FOR BORDER SECURITY AND SURVEILLANCE FUELS SEGMENT

## 9.4 C-BAND

9.4.1 INCLUSION OF GEOSTATIONARY COMMUNICATION SATELLITES IN 5G SPACE NETWORK BOOSTS SEGMENT

## 9.5 K-BAND

9.5.1 INCREASING SCIENTIFIC OPERATIONS DRIVE USE OF K-BAND IN SATELLITES

## 9.6 VHF-/UHF-/HF-BAND

9.6.1 INCREASING DEMAND FOR LEO COMMUNICATION SATELLITES BOOSTS SEGMENT

## 9.7 OTHERS

# 10 SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT

## 10.1 INTRODUCTION

FIGURE 37 LEO SEGMENT TO DOMINATE MARKET DURING FORECAST PERIOD

TABLE 18 SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2018–2021 (USD MILLION)

TABLE 19 SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2022–2027 (USD MILLION)

## 10.2 LOW EARTH ORBIT

10.2.1 DEVELOPMENT OF 5G SPACE NETWORKS BOOSTS SEGMENT

## 10.3 MEDIUM EARTH ORBIT

10.3.1 USE OF SPACE ON-BOARD COMPUTING PLATFORM FOR MILITARY, NAVIGATION, AND COMMUNICATION TO DRIVE SEGMENT

## 10.4 GEOSTATIONARY EARTH ORBIT (GEO)

10.4.1 INCREASING NEED FOR WEATHER FORECASTING SATELLITES FUELS SEGMENT

# 11 SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY TECHNOLOGY

## 11.1 INTRODUCTION

## 11.2 COTS

11.2.1 USE OF COTS STANDARD COMPONENTS FOR MISSION-CRITICAL SPACE APPLICATIONS BOOSTS MARKET

## 11.3 NON-COTS

11.3.1 RUGGEDNESS, RELIABILITY, CONSISTENCY – FEATURES OF NON-COTS COMPONENTS THAT ENSURE THEIR DOMINANCE

# 12 REGIONAL ANALYSIS

## 12.1 INTRODUCTION

FIGURE 38 NORTH AMERICA TO HOLD LARGEST SHARE OF SPACE ON-BOARD COMPUTING PLATFORM MARKET IN 2022

## 12.2 IMPACT OF COVID-19

FIGURE 39 IMPACT OF COVID-19 ON SPACE ON-BOARD COMPUTING PLATFORM MARKET

TABLE 20 SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 21 SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY REGION, 2022–2027 (USD MILLION)

## 12.3 NORTH AMERICA

FIGURE 40 NORTH AMERICA: NUMBER OF SATELLITES LAUNCHED FROM 2018 TO 2021

### 12.3.1 PESTLE ANALYSIS: NORTH AMERICA

FIGURE 41 NORTH AMERICA: SPACE ON-BOARD COMPUTING PLATFORM MARKET SNAPSHOT

TABLE 22 NORTH AMERICA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 23 NORTH AMERICA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 24 NORTH AMERICA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 25 NORTH AMERICA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 26 NORTH AMERICA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY PLATFORM, 2018–2021 (USD MILLION)

TABLE 27 NORTH AMERICA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY PLATFORM, 2022–2027 (USD MILLION)

TABLE 28 NORTH AMERICA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY COMMUNICATION FREQUENCY, 2018–2021 (USD MILLION)

TABLE 29 NORTH AMERICA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY COMMUNICATION FREQUENCY, 2022–2027 (USD MILLION)

TABLE 30 NORTH AMERICA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2018–2021 (USD MILLION)

TABLE 31 NORTH AMERICA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2022–2027 (USD MILLION)

### 12.3.2 US

12.3.2.1 Increased investment in new computing platform architectures drives market

TABLE 32 US: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 33 US: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 34 US: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2018–2021 (USD MILLION)

TABLE 35 US: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2022–2027 (USD MILLION)

### 12.3.3 CANADA

12.3.3.1 Government support to enhance space capabilities drives market

TABLE 36 CANADA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 37 CANADA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 38 CANADA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2018–2021 (USD MILLION)

TABLE 39 CANADA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2022–2027 (USD MILLION)

### 12.4 EUROPE

FIGURE 42 EUROPE: NUMBER OF SATELLITES LAUNCHED FROM 2018 TO 2021

#### 12.4.1 PESTLE ANALYSIS: EUROPE

FIGURE 43 EUROPE: SPACE ON-BOARD COMPUTING PLATFORM MARKET SNAPSHOT

TABLE 40 EUROPE: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 41 EUROPE: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 42 EUROPE: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 43 EUROPE: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 44 EUROPE: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY PLATFORM, 2018–2021 (USD MILLION)

TABLE 45 EUROPE: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY PLATFORM, 2022–2027 (USD MILLION)

TABLE 46 EUROPE: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY COMMUNICATION FREQUENCY, 2018–2021 (USD MILLION)

TABLE 47 EUROPE: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY COMMUNICATION FREQUENCY, 2022–2027 (USD MILLION)

TABLE 48 EUROPE: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2018–2021 (USD MILLION)

TABLE 49 EUROPE: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2022–2027 (USD MILLION)

#### 12.4.2 UK

12.4.2.1 Space component modernization programs boost market

TABLE 50 UK: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 51 UK: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 52 UK: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2018–2021 (USD MILLION)

TABLE 53 UK: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2022–2027 (USD MILLION)

#### 12.4.3 FRANCE

12.4.3.1 Government boost to nano- and microsatellites fuels market

TABLE 54 FRANCE: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 55 FRANCE: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 56 FRANCE: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2018–2021 (USD MILLION)

TABLE 57 FRANCE: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2022–2027 (USD MILLION)

#### 12.4.4 GERMANY

12.4.4.1 Increased need for 5G compatible satellite communication expected to boost market

TABLE 58 GERMANY: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 59 GERMANY: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 60 GERMANY: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2018–2021 (USD MILLION)

TABLE 61 GERMANY: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2022–2027 (USD MILLION)

#### 12.4.5 ITALY

12.4.5.1 Rising number of funded studies for space development programs – key market driver

TABLE 62 ITALY: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY

APPLICATION, 2018–2021 (USD MILLION)

TABLE 63 ITALY: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 64 ITALY: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2018–2021 (USD MILLION)

TABLE 65 ITALY: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2022–2027 (USD MILLION)

#### 12.4.6 RUSSIA

12.4.6.1 Market driven by increasing number of satellite launches for its military satellite constellation

TABLE 66 RUSSIA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 67 RUSSIA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 68 RUSSIA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2018–2021 (USD MILLION)

TABLE 69 RUSSIA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2022–2027 (USD MILLION)

#### 12.4.7 REST OF EUROPE

TABLE 70 REST OF EUROPE: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 71 REST OF EUROPE: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 72 REST OF EUROPE: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2018–2021 (USD MILLION)

TABLE 73 REST OF EUROPE: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2022–2027 (USD MILLION)

#### 12.5 ASIA PACIFIC

FIGURE 44 ASIA PACIFIC: NUMBER OF SATELLITES LAUNCHED FROM 2018 TO 2021

##### 12.5.1 PESTLE ANALYSIS: ASIA PACIFIC

FIGURE 45 ASIA PACIFIC: SPACE ON-BOARD COMPUTING PLATFORM MARKET SNAPSHOT

TABLE 74 ASIA PACIFIC: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 75 ASIA PACIFIC: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 76 ASIA PACIFIC: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2018–2021 (USD MILLION)



TABLE 77 ASIA PACIFIC: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 78 ASIA PACIFIC: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY PLATFORM, 2018–2021 (USD MILLION)

TABLE 79 ASIA PACIFIC: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY PLATFORM, 2022–2027 (USD MILLION)

TABLE 80 ASIA PACIFIC: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY COMMUNICATION FREQUENCY, 2018–2021 (USD MILLION)

TABLE 81 ASIA PACIFIC: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY COMMUNICATION FREQUENCY, 2022–2027 (USD MILLION)

TABLE 82 ASIA PACIFIC: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2018–2021 (USD MILLION)

TABLE 83 ASIA PACIFIC: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2022–2027 (USD MILLION)

#### 12.5.2 CHINA

12.5.2.1 Demand driven by use of military satellites to tackle instability across neighboring countries

TABLE 84 CHINA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 85 CHINA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 86 CHINA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2018–2021 (USD MILLION)

TABLE 87 CHINA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2022–2027 (USD MILLION)

#### 12.5.3 INDIA

12.5.3.1 Thriving telecommunication industry anticipated to drive market

TABLE 88 INDIA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 89 INDIA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 90 INDIA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2018–2021 (USD MILLION)

TABLE 91 INDIA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2022–2027 (USD MILLION)

#### 12.5.4 JAPAN

12.5.4.1 Focus of private companies on developing advanced technologies for space applications boosts market growth

TABLE 92 JAPAN: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY

APPLICATION, 2018–2021 (USD MILLION)

TABLE 93 JAPAN: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 94 JAPAN: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2018–2021 (USD MILLION)

TABLE 95 JAPAN: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2022–2027 (USD MILLION)

#### 12.5.5 AUSTRALIA

12.5.5.1 Government efforts to set up satellite and launch facilities stimulate market growth

TABLE 96 AUSTRALIA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 97 AUSTRALIA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 98 AUSTRALIA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2018–2021 (USD MILLION)

TABLE 99 AUSTRALIA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2022–2027 (USD MILLION)

#### 12.5.6 REST OF ASIA PACIFIC

TABLE 100 REST OF ASIA PACIFIC: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 101 REST OF ASIA PACIFIC: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 102 REST OF ASIA PACIFIC: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2018–2021 (USD MILLION)

TABLE 103 REST OF ASIA PACIFIC: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2022–2027 (USD MILLION)

#### 12.6 REST OF THE WORLD

FIGURE 46 REST OF THE WORLD: NUMBER OF SATELLITES LAUNCHED FROM 2018 TO 2021

##### 12.6.1 PESTLE ANALYSIS: REST OF THE WORLD

FIGURE 47 REST OF THE WORLD: SPACE ON-BOARD COMPUTING PLATFORM MARKET SNAPSHOT

TABLE 104 REST OF THE WORLD: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 105 REST OF THE WORLD: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY REGION, 2022–2027 (USD MILLION)

TABLE 106 REST OF THE WORLD: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 107 REST OF THE WORLD: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 108 REST OF THE WORLD: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY PLATFORM, 2018–2021 (USD MILLION)

TABLE 109 REST OF THE WORLD: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY PLATFORM, 2022–2027 (USD MILLION)

TABLE 110 REST OF THE WORLD: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY COMMUNICATION FREQUENCY, 2018–2021 (USD MILLION)

TABLE 111 REST OF THE WORLD: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY COMMUNICATION FREQUENCY, 2022–2027 (USD MILLION)

TABLE 112 REST OF THE WORLD: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2018–2021 (USD MILLION)

TABLE 113 REST OF THE WORLD: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2022–2027 (USD MILLION)

#### 12.6.2 MIDDLE EAST

TABLE 114 MIDDLE EAST: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 115 MIDDLE EAST: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 116 MIDDLE EAST: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2018–2021 (USD MILLION)

TABLE 117 MIDDLE EAST: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2022–2027 (USD MILLION)

#### 12.6.3 AFRICA

TABLE 118 AFRICA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 119 AFRICA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 120 AFRICA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2018–2021 (USD MILLION)

TABLE 121 AFRICA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2022–2027 (USD MILLION)

#### 12.6.4 LATIN AMERICA

TABLE 122 LATIN AMERICA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 123 LATIN AMERICA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 124 LATIN AMERICA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2018–2021 (USD MILLION)

**TABLE 125 LATIN AMERICA: SPACE ON-BOARD COMPUTING PLATFORM MARKET, BY ORBIT, 2022–2027 (USD MILLION)****13 COMPETITIVE LANDSCAPE****13.1 INTRODUCTION****TABLE 126 KEY DEVELOPMENTS BY LEADING PLAYERS IN SPACE ON-BOARD COMPUTING PLATFORM MARKET BETWEEN 2019 AND MARCH 2022****13.2 MARKET SHARE ANALYSIS OF LEADING PLAYERS, 2021****FIGURE 48 REVENUE GENERATED BY MAJOR PLAYERS IN SPACE ON-BOARD COMPUTING PLATFORM MARKET, 2021****FIGURE 49 COLLECTIVE REVENUE SHARE OF TOP FIVE PLAYERS****13.3 RANK ANALYSIS, 2021****TABLE 127 DEGREE OF COMPETITION****TABLE 128 COMPANY REGION FOOTPRINT****TABLE 129 COMPANY APPLICATION FOOTPRINT****TABLE 130 COMPANY PLATFORM FOOTPRINT****13.4 COMPETITIVE EVALUATION QUADRANT****13.4.1 STARS****13.4.2 PERVASIVE COMPANIES****13.4.3 EMERGING LEADERS****13.4.4 PARTICIPANTS****FIGURE 50 SPACE ON-BOARD COMPUTING PLATFORM MARKET COMPETITIVE LEADERSHIP MAPPING, 2021****13.5 COMPETITIVE BENCHMARKING****13.5.1 PROGRESSIVE COMPANIES****13.5.2 RESPONSIVE COMPANIES****13.5.3 STARTING BLOCKS****13.5.4 DYNAMIC COMPANIES****FIGURE 51 SPACE ON-BOARD COMPUTING PLATFORM MARKET COMPETITIVE LEADERSHIP MAPPING (SME)****13.6 DETAILED LIST & COMPETITIVE BENCHMARKING OF KEY STARTUP/SMES****TABLE 131 SPACE ON-BOARD COMPUTING PLATFORM MARKET: DETAILED LIST OF KEY STARTUP/SMES****TABLE 132 SPACE ON-BOARD COMPUTING PLATFORM MARKET: COMPETITIVE BENCHMARKING OF KEY STARTUP/SMES****13.7 COMPETITIVE SCENARIO****13.7.1 NEW PRODUCT LAUNCHES****TABLE 133 NEW PRODUCT LAUNCHES, 2019–MARCH 2022**

### 13.7.2 DEALS

TABLE 134 DEALS, 2019–MARCH 2022

## 14 COMPANY PROFILES

### 14.1 INTRODUCTION

### 14.2 KEY PLAYERS

(Business Overview, Products/Services/Solutions Offered, MnM View, Key Strengths and Right to Win, Strategic Choices Made, Weaknesses and Competitive Threats, Recent Developments)\*

#### 14.2.1 NORTHROP GRUMMAN CORPORATION

TABLE 135 NORTHROP GRUMMAN CORPORATION: BUSINESS OVERVIEW

FIGURE 52 NORTHROP GRUMMAN CORPORATION: COMPANY SNAPSHOT

#### 14.2.2 THALES GROUP

TABLE 136 THALES GROUP: BUSINESS OVERVIEW

FIGURE 53 THALES GROUP: COMPANY SNAPSHOT

TABLE 137 THALES GROUP: NEW PRODUCT DEVELOPMENT

#### 14.2.3 LOCKHEED MARTIN

TABLE 138 LOCKHEED MARTIN: BUSINESS OVERVIEW

FIGURE 54 LOCKHEED MARTIN: COMPANY SNAPSHOT

TABLE 139 LOCKHEED MARTIN: NEW PRODUCT DEVELOPMENT

#### 14.2.4 RAYTHEON TECHNOLOGIES

TABLE 140 RAYTHEON TECHNOLOGIES: BUSINESS OVERVIEW

FIGURE 55 RAYTHEON TECHNOLOGIES: COMPANY SNAPSHOT

#### 14.2.5 HONEYWELL INTERNATIONAL INC.

TABLE 141 HONEYWELL INTERNATIONAL INC: BUSINESS OVERVIEW

FIGURE 56 HONEYWELL INTERNATIONAL INC: COMPANY SNAPSHOT

TABLE 142 HONEYWELL INTERNATIONAL INC: DEALS

#### 14.2.6 BAE SYSTEMS

TABLE 143 BAE SYSTEMS: BUSINESS OVERVIEW

FIGURE 57 BAE SYSTEMS: COMPANY SNAPSHOT

TABLE 144 BAE SYSTEMS: NEW PRODUCT DEVELOPMENT

TABLE 145 BAE SYSTEMS: DEALS

#### 14.2.7 AIRBUS GROUP

TABLE 146 AIRBUS GROUP: BUSINESS OVERVIEW

FIGURE 58 AIRBUS GROUP: COMPANY SNAPSHOT

#### 14.2.8 LEONARDO S.P.A.

TABLE 147 LEONARDO S.P.A.: BUSINESS OVERVIEW

FIGURE 59 LEONARDO S.P.A.: COMPANY SNAPSHOT

#### 14.2.9 L3HARRIS TECHNOLOGIES

TABLE 148 L3HARRIS TECHNOLOGIES: BUSINESS OVERVIEW

FIGURE 60 L3HARRIS TECHNOLOGIES: COMPANY SNAPSHOT

#### 14.2.10 TELEDYNE TECHNOLOGIES

TABLE 149 TELEDYNE TECHNOLOGIES: BUSINESS OVERVIEW

FIGURE 61 TELEDYNE TECHNOLOGIES: COMPANY SNAPSHOT

#### 14.2.11 MDA

TABLE 150 MDA: BUSINESS OVERVIEW

FIGURE 62 MDA: COMPANY SNAPSHOT

TABLE 151 MDA: DEALS

#### 14.2.12 SAAB AB

TABLE 152 SAAB AB: BUSINESS OVERVIEW

FIGURE 63 SAAB AB: COMPANY SNAPSHOT

#### 14.2.13 ST ENGINEERING

TABLE 153 ST ENGINEERING: BUSINESS OVERVIEW

FIGURE 64 ST ENGINEERING: COMPANY SNAPSHOT

TABLE 154 ST ENGINEERING: DEALS

#### 14.2.14 IBM

TABLE 155 IBM: BUSINESS OVERVIEW

FIGURE 65 IBM: COMPANY SNAPSHOT

#### 14.2.15 ELECNOR

TABLE 156 ELECNOR: BUSINESS OVERVIEW

FIGURE 66 ELECNOR: COMPANY SNAPSHOT

#### 14.2.16 BALL CORP.

TABLE 157 BALL CORP.: BUSINESS OVERVIEW

FIGURE 67 BALL CORP.: COMPANY SNAPSHOT

### 14.3 OTHER KEY PLAYERS

#### 14.3.1 RUAG SPACE

TABLE 158 RUAG SPACE: BUSINESS OVERVIEW

TABLE 159 RUAG SPACE: NEW PRODUCT DEVELOPMENT

#### 14.3.2 RAMON SPACE

TABLE 160 RAMON SPACE; BUSINESS OVERVIEW

TABLE 161 RAMON SPACE: NEW PRODUCT DEVELOPMENT

TABLE 162 RAMON SPACE: DEALS

#### 14.3.3 LMO SPACE

TABLE 163 LMO SPACE: BUSINESS OVERVIEW

#### 14.3.4 COBHAM GAISLER AB

TABLE 164 COBHAM GAISLER AB: BUSINESS OVERVIEW

TABLE 165 COBHAM GAISLER AB: NEW PRODUCT DEVELOPMENT

#### 14.3.5 GAUSS SRL

TABLE 166 GAUSS SRL: BUSINESS OVERVIEW

#### 14.3.6 YORK SPACE SYSTEMS

TABLE 167 YORK SPACE SYSTEMS: BUSINESS OVERVIEW

#### 14.3.7 SPACE TANGO

TABLE 168 SPACE TANGO: BUSINESS OVERVIEW

#### 14.3.8 CONTEC

TABLE 169 CONTEC: BUSINESS OVERVIEW

#### 14.3.9 ISI SPACE

TABLE 170 ISI SPACE: BUSINESS OVERVIEW

#### 14.3.10 ENDUROSAT

TABLE 171 ENDUROSAT: BUSINESS OVERVIEW

#### 14.3.11 LOFT ORBITAL

TABLE 172 LOFT ORBITAL: BUSINESS OVERVIEW

TABLE 173 LOFT ORBITAL: DEALS

\*Business Overview, Products/Services/Solutions Offered, MnM View, Key Strengths and Right to Win, Strategic Choices Made, Weaknesses and Competitive Threats, Recent Developments might not be captured in case of unlisted companies.

## **15 APPENDIX**

### 15.1 DISCUSSION GUIDE

### 15.2 KNOWLEDGESTORE: MARKETSDANDMARKETS' SUBSCRIPTION PORTAL

### 15.3 AVAILABLE CUSTOMIZATION

### 15.4 RELATED REPORTS

### 15.5 AUTHOR DETAILS

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