

Global Space On-board Computing Technology Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Space On-board Computing Technology market size was valued at US\$ 1163 million in 2025 and is forecast to a readjusted size of US\$ 1799 million by 2032 with a CAGR of 6.4% during review period.

Space On-board Computing Technology refers to an embedded hardware and software technology system specifically designed for spacecraft platforms (satellites, space stations, deep space probes, etc.) to perform functions such as data acquisition, signal processing, mission scheduling, autonomous control, and scientific computing in extreme space environments. Its core lies in overcoming the constraints of strong radiation, high vacuum, severe temperature differences, and limited power consumption, weight, and volume (SWaP) that traditional terrestrial computing cannot withstand. It ensures the long-term stable operation of the computing system in orbit by employing radiation-hardened processors, fault-tolerant computing architectures, real-time operating systems, and low-power, high-reliability integrated circuits. This technology covers multiple levels, from attitude and orbit control calculations, payload data processing, and inter-satellite link communication protocol management to autonomous mission planning, and is the core foundation for spacecraft to achieve autonomous 'perception-decision-execution.' As space missions develop towards intelligence, networking, and on-orbit services, spaceborne computing is gradually integrating artificial intelligence processing and heterogeneous accelerated computing capabilities, becoming a key supporting technology for promoting real-time applications of space information and deep space exploration.

The space on-board computing technology market has been witnessing steady growth

driven by increased space exploration missions, satellite deployments for communication and earth observation, and advancements in satellite technology. On-board computing systems play a crucial role in enabling spacecraft and satellites to perform various functions, such as communication, navigation, scientific research, and data processing. The space on-board computing technology market is global in nature, with key players and manufacturers distributed across various regions. Major players in this market are often based in countries with well-established space industries, such as the United States, Russia, European Union countries, China, and India. Additionally, space technology collaborations and partnerships between countries also influence the market dynamics.

This report is a detailed and comprehensive analysis for global Space On-board Computing Technology market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Space On-board Computing Technology market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Space On-board Computing Technology market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Space On-board Computing Technology market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Space On-board Computing Technology market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Space On-board Computing Technology

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Space On-board Computing Technology market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include BAE Systems, Thales Group, L3Harris Technologies, Lockheed Martin Corp, Honeywell International, Raytheon Technologies, Saab AB, Northrop Grumman, Airbus, Cobham Gaisler, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Space On-board Computing Technology market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Nano Satellite

Micro Satellite

Small Satellite

Medium Satellite

Large Satellite

Others

Market segment by Computational Tasks

Platform Management and Attitude/Orbit Control Calculations

Payload Data Processing

Autonomous Mission Planning and Decision-Making Calculations

Inter-Satellite Link and Network Communication Calculations

Market segment by Architecture

CPU (Central Processing Unit) Architecture

FPGA (Field-Programmable Gate Array) Architecture

GPU/DSP (Graphics/Digital Signal Processor) Architecture

ASIC (Application-Specific Integrated Circuit) Architecture

Heterogeneous Convergence Architecture

Market segment by Application

Communication

Earth Observation

Navigation

Meteorology

Others

Market segment by players, this report covers

BAE Systems

Thales Group

L3Harris Technologies

Lockheed Martin Corp

Honeywell International

Raytheon Technologies

Saab AB

Northrop Grumman

Airbus

Cobham Gaisler

EnduroSat

GAUSS Srl

Leonardo

Loft Orbital

KP Labs

SkyServe

Terma

GALAXYSPACE

CAST

China AerospaceScience and Technology Corporation

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Space On-board Computing Technology product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Space On-board Computing Technology, with revenue, gross margin, and global market share of Space On-board Computing Technology from 2021 to 2026.

Chapter 3, the Space On-board Computing Technology competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Space On-board Computing Technology market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Space On-board Computing Technology.

Chapter 13, to describe Space On-board Computing Technology research findings and conclusion.

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