Primary Driver in the Space On-board Computing Platform Market 2025: Industrial Robots Drive Growth In Market

The Business Research Company's Space On-board Computing Platform Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034

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The space on-board computing platform market has experienced significant growth in recent years. It is expected to expand from $1.48 billion in 2024 to $1.64 billion in 2025, growing at a compound annual growth rate (CAGR) of 11.0%. The growth in the past period can be attributed to the rising demand for earth observation data, the expansion of satellite constellations, advancements in satellite technology, the need for onboard data processing, and the increasing deployment of CubeSats and small satellites.

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How Big Is the Global Space On-board Computing Platform Market Expected to Grow, and What Is Its Annual Growth Rate?

The space on-board computing platform market is anticipated to experience significant growth in the coming years. It is projected to reach $2.8 billion by 2029, growing at a compound annual growth rate (CAGR) of 14.3%. The growth during this period can be attributed to the expansion of commercial space activities, the increasing use of edge computing in space, the growth of deep space exploration missions, the demand for autonomous satellite operations, and the application of quantum computing in space. Key trends during this time include the integration of artificial intelligence in space computing, software-defined space systems, high-performance computing in space, onboard machine learning and analytics, and the miniaturization of space

computing components.

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What Is Driving the Growth of the Space On-board Computing Platform Market?
The growth of space exploration missions is expected to drive the expansion of the space-on-board computing platform market in the future. These platforms are widely utilized in space exploration missions because of their ability to collect data through various applications, store and analyze the information, and distribute it for mapping and navigation in both Earth and space exploration activities. Furthermore, space on-board computing platforms enable applications to adapt to new requirements or situations, allowing for quick updates or the deployment of new algorithms to enhance systems for image analysis during space missions.

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Which Leading Companies Are Driving The Growth Of The Space On-board Computing Platform Market Share?
Major companies operating in the space on-board computing platform market include BAE Systems plc, Thales Group, L3Harris Technologies Inc., Lockheed Martin Corporation, Honeywell International Inc.
What Are The Key Trends Driving The Growth Of The Space On-board Computing Platform Market Size?
Key companies in the space on-board computing platform market are forming strategic partnerships to improve technology integration and broaden their market presence. A strategic partnership generally involves a cooperative relationship between two or more organizations, where they pool their resources, expertise, and efforts to achieve shared goals or objectives.

How Is the Global Space On-board Computing Platform Market Segmented?
The space on-board computing platform market covered in this report is segmented –
1) By Platform: Nano Satellite, MicroSatellite, Small Satellite, Medium Satellite, Large Satellite, Spacecraft
2) By Technology: Cots, Non-Cots
3) By Orbit: Low Earth Orbit (LEO), Medium Earth Orbit (MEO), Geostationary Earth Orbit (GEO)
4) By Communication Frequency: S-Band, X-Band, C-Band, K-Band, Other Communication Frequencies
5) By Application: Communication, Earth Observation, Navigation, Meteorology, Other Applications
Subsegments:
1) By Nano Satellite: 1U CubeSats, 3U CubeSats, Other Nano Satellites
2) By Microsatellite: 10-100 Kg Satellites, Specialized Microsatellites

3) By Small Satellite: 100-500 Kg Satellites, Small Science Satellites
4) By Medium Satellite: 500-2,000 Kg Satellites, Medium Communication Satellites
5) By Large Satellite: Over 2,000 Kg Satellites, Large Earth Observation Satellites
6) By Spacecraft: Manned Spacecraft, Unmanned Spacecraft, Space Probes

The Leading Region in the Space On-board Computing Platform Market is:
North America was the largest region in the space on-board computing platform market in 2024.Asia-Pacific is expected to be the fastest-growing region in the forecast period.
What Is the Space On-board Computing Platform Market?
The space on-board computing platform is a vital component of spacecraft avionics, responsible for collecting, analyzing, and processing data gathered by satellites to create precise maps of the Earth's surface. It collects data through various applications and enables mapping and navigation worldwide.

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The Business Research Company: https://www.thebusinessresearchcompany.com/
Americas +1 3156230293
Asia +44 2071930708
Europe +44 2071930708

Email us at: info@tbrc.info

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Oliver Guirdham
The Business Research Company
+44 20 7193 0708
info@tbrc.info
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