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Global Space On-board Computing Platform Market Size study, by Platform, Application (Earth Observation, Navigation, Communication, Military & Scientific), by Orbit (Low Earth Orbit (LEO), Medium Earth Orbit (MEO), Geostationary Earth Orbit (GEO), by Communication Frequency (X-band, S-band, K-band, UHF/VHF Band, Technology) and Regional Forecasts 2022-2028

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Abstracts

Global Space On-board Computing Platform Market is valued approximately 1.2 billion in 2021 and is anticipated to grow with a healthy growth rate of more than 12% over the forecast period 2022-2028. Modern communication technologies are increasingly incorporating onboard space computing platforms. The introduction of 5G and the development of new hardware systems are opening up numerous opportunities in satellite communication. Increased R&D activities in communication-related missions are expected to result in higher-quality communication systems using highly sophisticated miniaturized onboard computing platforms in conjunction with advanced mission-compatible ground station technologies. Technological advances have aided in overcoming major challenges by providing efficient miniaturized on-board computing platforms for advanced communication hardware on such satellites. This has helped to generate higher data rates, which has improved the overall communication capabilities of nanosatellites, microsatellites, and small satellites. Small satellites provide important communication capabilities such as disaster management, asset tracking, and mobile communication. Because of the improved space computing platforms on board that have been developed in recent years, these satellites can accommodate more sophisticated payloads than larger traditional satellites. Ramon Space unveiled a

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storage system that can withstand the harsh environment of space in March 2022. NuStream is the most recent data-driven space mission computing infrastructure platform. It has advanced modular architecture and high-density storage. On August 20th , 2021 BAE Systems designed and manufactured the radiation-hardened RAD510 System on Chip (SoC), which forms the core of a single board computer (SBC) with twice the performance capability of the industry-standard RAD750 microprocessor. The SBC offers more advanced Power Architecture software-compatible processing than the RAD750 radiation-hardened general-purpose processor.

The key regions considered for the global Space On-board Computing Platform Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America will lead the Space on-board Computing Platform Market, with the United States accounting for the largest share of the regional market. The growing demand for space on-board computing platforms in the United States and Canada, as well as the use of space on-board computing platforms in various commercial and military satellite applications, are driving the market in North America.
L3harris Technologies, Lockheed Martin Corporation, Honeywell International Inc., Northrop Grumman Corp., and Lockheed Martin are among the major players in the space on-board computing platforms market in North America. York Space Systems and Space Tango are two other major players in North America.

Major market player included in this report are:
Northrop Grumman Corporation
Thales Group
Lockheed Martin
Raytheon Technologies
Honeywell International Inc.
Bae Systems
Airbus Group
Leonardo S.P.A.
L3harris Technologies
Teledyne Technologies
The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest

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along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:
By Application:
Communication
Earth Observation
Navigation
Meteorology
Other

By Platform:

Nano Satellite
Micro satellite
Small satellite
Medium satellite
Large satellite
Spacecraft

By Communication Frequency:

X-band
S-band
K-band
UHF/VHF Band
By Orbit:

Low Earth Orbit (LEO)
Medium Earth Orbit (MEO)
Geostationary Earth Orbit (GEO)

By Region:
North America
U.S.
Canada
Europe
UK
Germany
France

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Spain
Italy
ROE

Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC
Latin America
Brazil
Mexico
Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2018, 2019, 2020
Base year – 2021
Forecast period – 2022 to 2028

Target Audience of the Global Space On-board Computing Platform Market in Market Study:

Key Consulting Companies & Advisors
Large, medium-sized, and small enterprises
Venture capitalists
Value-Added Resellers (VARs)
Third-party knowledge providers
Investment bankers
Investors

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