

Space Electronics Market by Platform Type (Satellite, Launch Vehicle, and Others), by Component Type (Discrete Semiconductors, Optoelectronics, Integrated Circuits, and Others), by Subsystem Type (Electrical Power Subsystem, Attitude & Orbital Control Subsystem, Telemetry, Tracking & Command Subsystem, Communication Subsystem, and Others), by Product Type (Radiation-Hardened and Radiation-Tolerant), and by Region (North America, Europe, Asia-Pacific, and Rest of the World), Trend, Forecast, Competitive Analysis, and Growth Opportunity: 2018-2023

<https://marketpublishers.com/r/S60B757EBB7EN.html>

Date: March 2018

Pages: 245

Price: US\$ 4,790.00 (Single User License)

ID: S60B757EBB7EN

Abstracts

This is the ONGOING report. If ordered it could be delivered in 2-3 weeks timeframe.

This report, from Stratview Research, studies the global space electronics market over the forecast period of 2018 to 2023 and trend period of 2012 to 2017. The report provides detailed insights into the market dynamics to enable informed business decision making and growth strategy formulation based on the opportunities present in the market.

The Space Electronics Market: Highlights

The next five years for the space electronics market are going to be resilient with having

sizeable growth opportunities for both existing as well as new players. The global space electronics market is projected to reach an estimated value of US\$ 1,557.9 million in 2023. Increasing production of satellites, especially small satellites; market entry of commercial space companies; increasing involvement of a number of countries in the space community; an increased demand for reducing the cost of electronic components; and the technological advancements are some major factors that are burgeoning the demand for electronics in the space industry.

Space is an extremely hazardous environment with the presence of lethal radiation, micrometeoroids, highly fluctuating temperatures, and man-made debris, which may cause different types of issues for electronic components from simple bit flips to the dangerous complete burnout of electronic systems. The effects produced by the radiation on the space electronics, such as Single Event Effect (SEE) and Total Ionizing Dose (TID), can be rectified by the radiation-hardening process. The process makes the electronic components capable to operate reliably for eons in the harsh space environment but at a very high cost.

The global space electronics market is segmented based on platform type as Satellite, Launch Vehicle, and Others. The satellite segment is expected to remain the growth engine of the global space electronics market during the forecast period of 2018 to 2023. Increasing participation of commercial space companies, such as Space X, OneWeb Satellites, and Sky and Space Global Ltd, and an expected launch of more than 4,000 satellites during 2018-2023 would propel the demand for electronics in the satellite segment in years to come.

Based on the component type, the space electronics market is segmented as Discrete Semiconductors, Optoelectronics, Integrated Circuits, and Others. Integrated circuits are expected to remain the most dominant component type in the total space electronics market during the forecast period of 2018 to 2023. Increasing demand for electronics that are smaller in size and lighter in weight and consume lesser power (reduced SWaP), is the driving force of integrated circuits in the total space electronics market.

Based on the product type, the global space electronics market is segmented as Radiation-Hardened Electronics and Radiation-Tolerant Electronics. Both, radiation-hardened as well as radiation-tolerant electronic segments, are likely to grow at healthy growth rates over the next five years; however, the radiation-tolerant segment is likely to witness a higher growth during the same period. Increasing demand for COTS (Commercial-off-the-Shelf) components, drastically lowering launch cost from

commercial space companies, and growing demand for small satellites, especially for earth observation, communication, and networking applications are the key whys and wherefores behind the higher growth of the radiation-tolerant space electronics market.

Based on the regions, North America is expected to remain the largest space electronics market during the forecast period and is also expected to experience the highest growth during the same period. NASA is the largest space agency in the world, which is largely involved in space-related activities located in the USA. Furthermore, the market entry of commercial space companies, such as Space X, propel the region's demand for space electronics in the coming years.

Europe and Asia-Pacific are also likely to offer good growth opportunities in the coming years. India, China, and Russia would be the new growth engines of the European and Asia-Pacific's space electronics market in the coming years.

The supply chain of this market comprises raw material suppliers, electronic component manufacturers, subsystem manufacturers, spacecraft manufacturers, and space agencies or launch service providers. The key space electronic component manufacturers are BAE Systems Plc., Cobham Plc., Honeywell International Inc., Microsemi Corporation, and Texas Instruments. Development of low-cost electronics, regional expansion, and mergers & acquisitions are the key strategies adopted by the major players to gain a competitive edge in the market.

Research Methodology

This report offers high-quality insights and is the outcome of detailed research methodology comprising extensive secondary research, rigorous primary interviews with industry stakeholders and validation and triangulation with Stratview Research's internal database and statistical tools. More than 500 authenticated secondary sources, such as company annual reports, fact book, press release, journals, investor presentation, white papers, patents, and articles have been leveraged to gather the data. About 10 detailed primary interviews with the market players across the value chain in all four regions and industry experts have been executed to obtain both qualitative and quantitative insights.

Report Features

This report provides market intelligence in the most comprehensive way. The report structure has been kept such that it offers maximum business value. It provides critical

insights into the market dynamics and will enable strategic decision making for the existing market players as well as those willing to enter the market. The following are the key features of the report:

Market structure: Overview, industry life cycle analysis, supply chain analysis

Market environment analysis: Growth drivers and constraints, Porter's five forces analysis, SWOT analysis

Market trend and forecast analysis

Market segment trend and forecast

Competitive landscape and dynamics: Market share, product portfolio, product launches, etc.

Attractive market segments and associated growth opportunities

Emerging trends

Strategic growth opportunities for the existing and new players

Key success factors

The global space electronics market is segmented into the following categories.

Global Space Electronics Market, By Platform Type

Satellite (Regional Analysis: NA, Europe, APAC, and RoW)

Launch Vehicle (Regional Analysis: NA, Europe, APAC, and RoW)

Others (Regional Analysis: NA, Europe, APAC, and RoW)

Global Space Electronics Market, By Component Type

Discrete Semiconductors (Regional Analysis: NA, Europe, APAC, and RoW)

Optoelectronics (Regional Analysis: NA, Europe, APAC, and RoW)

Integrated Circuits (Regional Analysis: NA, Europe, APAC, and RoW)

Others (Regional Analysis: NA, Europe, APAC, and RoW)

Global Space Electronics Market, By Subsystem Type

Electrical Power Subsystem (Regional Analysis: NA, Europe, APAC, and RoW)

Attitude & Velocity Control Subsystem (Regional Analysis: NA, Europe, APAC, and RoW)

Telemetry, Tracking & Command Subsystem (Regional Analysis: NA, Europe, APAC, and RoW)

Communication Subsystem (Regional Analysis: NA, Europe, APAC, and RoW)

Others (Regional Analysis: NA, Europe, APAC, and RoW)

Global Space Electronics Market, By Product Type

Radiation-Hardened Electronics (Regional Analysis: NA, Europe, APAC, and RoW)

Radiation-Tolerant Electronics (Regional Analysis: NA, Europe, APAC, and RoW)

Global Space Electronics Market, By Region

North America (Country Analysis: The USA, Canada, and Mexico)

Europe (Country Analysis: ESA, Russia, and Rest of Europe)

Asia-Pacific (Country Analysis: China, Japan, India and Rest of Asia-Pacific)

Rest of the World (Country Analysis: Latin America, The Middle East, and Others)

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- 10.9. Teledyne e2v
- 10.10. TT Electronics Plc.
- 10.11. Xilinx Inc.

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