

# Global Space Semiconductor Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Space Semiconductor market size was valued at US\$ 2703 million in 2024 and is forecast to a readjusted size of USD 4166 million by 2031 with a CAGR of 6.4% during review period.

Space semiconductor devices are electronic devices that enhance system performance and efficiency by providing various advantages over standard electronics components. The radiation-hardened semiconductor solution has high stability and efficiency at a very high temperature, making it ideal for space application.

The global space semiconductor market refers to the market for semiconductor devices and components that are specifically designed and used in space applications. These semiconductors are manufactured to meet the rigorous standards and requirements of the space industry, including high reliability, radiation tolerance, and extended temperature range.

The space semiconductor market is driven by the growing demand for advanced electronics and communication systems in space exploration, satellite communications, and military applications. Semiconductors are integral to the functioning of various space systems, including satellites, spacecraft, launch vehicles, and ground-based control systems.

The market for space semiconductors is characterized by the following key factors:

**Satellite Communications:** Communication satellites are deployed for various purposes, such as broadcasting, telecommunication, weather monitoring, and navigation. These

satellites heavily depend on semiconductors for their communication systems, including transceivers, transponders, and power amplifiers.

**Remote Sensing and Earth Observation:** Satellites equipped with sensors and imaging devices are used for remote sensing and Earth observation, enabling applications such as agriculture monitoring, weather forecasting, and disaster management.

Semiconductors play a vital role in the data acquisition, processing, and transmission functions of these satellites.

**Spacecraft Avionics:** Semiconductors are employed in spacecraft avionics systems for control, navigation, and communication purposes. These systems require high-performance microcontrollers, ASICs (Application-Specific Integrated Circuits), FPGAs (Field-Programmable Gate Arrays), and memory devices to ensure reliable and efficient operation.

**Radiation Hardened (Rad-hard) Semiconductors:** Space environments are characterized by high levels of radiation, including cosmic rays and solar flares, which can cause damage to electronic components. Radiation-hardened semiconductors are specifically designed and manufactured to withstand these extreme conditions, providing enhanced reliability and functionality.

**Defense and Military Applications:** The defense sector also contributes significantly to the space semiconductor market. Semiconductors are used in satellite-based communication systems, surveillance and reconnaissance devices, missile guidance systems, and other defense-related applications.

With the increasing demand for satellite-based services, advancements in space exploration missions, and the need for robust and reliable space systems, the global space semiconductor market is expected to witness steady growth in the coming years. Additionally, the emergence of new opportunities in satellite mega-constellations, deep space exploration, and small satellite deployments further contribute to market expansion.

This report is a detailed and comprehensive analysis for global Space Semiconductor market. Both quantitative and qualitative analyses are presented by manufacturers, 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 Semiconductor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Space Semiconductor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Space Semiconductor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Space Semiconductor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

### **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 Semiconductor

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

To forecast future factors affecting the marketplace

This report profiles key players in the global Space Semiconductor market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Teledyne Technologies Incorporated, Infineon Technologies AG, Texas Instruments Incorporated, Microchip Technology Inc., Cobham Advanced Electronic Solutions Inc., STMicroelectronics International N.V., Solid State Devices Inc., Honeywell International Inc., Xilinx Inc., BAE System Plc, etc.

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

### **Market Segmentation**

Space Semiconductor market is split by Type and by Application. For the period

2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

#### Market segment by Type

Integrated Circuits

Discrete Semiconductor Devices

Optical devices

Microprocessors

Memory

Sensors

Others

#### Market segment by Application

Satellites

Launch Vehicles

Deep Space Probes

Rovers

Lander

Others

#### Major players covered

Teledyne Technologies Incorporated

Infineon Technologies AG

Texas Instruments Incorporated

Microchip Technology Inc.

Cobham Advanced Electronic Solutions Inc.

STMicroelectronics International N.V.

Solid State Devices Inc.

Honeywell International Inc.

Xilinx Inc.

BAE System Plc

TE Connectivity

Analog Devices Inc.

On Semiconductor Corporation

Atmel Corporation

Maxim Integrated Products Inc.

Market segment by region, regional analysis covers  
North America (United States, Canada, and Mexico)  
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)  
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)  
South America (Brazil, Argentina, Colombia, and Rest of South America)  
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

*Global Space Semiconductor Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031*

Chapter 1, to describe Space Semiconductor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Space Semiconductor, with price, sales quantity, revenue, and global market share of Space Semiconductor from 2020 to 2025.

Chapter 3, the Space Semiconductor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Space Semiconductor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Space Semiconductor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Space Semiconductor.

Chapter 14 and 15, to describe Space Semiconductor sales channel, distributors, customers, research findings and conclusion.

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