

# Global Radiation-Hardened Processors for Space Applications Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Radiation-Hardened Processors for Space Applications market size was valued at US\$ 46.61 million in 2025 and is forecast to a readjusted size of US\$ 119 million by 2032 with a CAGR of 14.1% during review period.

In 2025, global sales of radiation-hardened processors for space applications were estimated at approximately 3,000 units, with an average price of about US\$15,100 per unit. Radiation-hardened processors for space applications are high-reliability semiconductor processors designed to perform instruction execution, platform control, data processing and mission computing functions in satellites, launch vehicles, space stations, space probes and other spacecraft operating under intense radiation, extreme temperatures and long mission lifetimes. Major product forms include radiation-hardened microprocessors and radiation-hardened microcontrollers. These devices typically employ radiation-hardened semiconductor processes, radiation-hardening-by-design techniques, fault-tolerant architectures, error detection and correction, lockstep operation and secure boot functions, and provide specified total ionizing dose, single-event upset, single-event latch-up or related radiation performance characteristics. They reduce data corruption, functional interruptions and permanent device damage caused by space radiation, enabling spacecraft computing systems to operate reliably where physical maintenance is unavailable. Major applications include onboard computers, command and data handling units, payload data processing units, attitude and orbit control systems, communications processing systems, launch vehicle control systems and deep-space mission computing platforms.

The rapid development of LEO satellite constellations, communication satellites, Earth

observation platforms, navigation systems and deep-space missions is increasing demand for onboard computing capability and long-term operational reliability. Radiation-hardened processors serve as key computing components in spacecraft electronics and benefit from increasing mission complexity.

Traditional spacecraft mainly relied on low-performance processors for basic control functions, while next-generation spacecraft require higher computing capability for high-resolution imaging, AI-enabled processing, software-defined communications and autonomous navigation. This trend is driving adoption of multicore radiation-hardened processors and advanced processor SoCs.

Export controls on advanced semiconductor technologies, space supply chain security concerns and strategic autonomy initiatives are encouraging countries including the United States, China, Europe, Japan and India to develop domestic radiation-hardened processor capabilities.

High-orbit satellites, deep-space probes and long-duration missions face increasingly challenging radiation environments, requiring higher resistance against total ionizing dose, single-event upset and single-event latch-up. This encourages upgrades toward higher-performance and more fault-tolerant processors.

Historically dominated by government space programs, radiation-hardened processors are increasingly adopted in commercial space applications. Growing demand for standardized, purchasable and shorter-development-cycle products is encouraging suppliers to expand commercial processor portfolios.

## Report Scope

This report is a detailed and comprehensive analysis for global Radiation-Hardened Processors for Space Applications 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 Radiation-Hardened Processors for Space Applications market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Radiation-Hardened Processors for Space Applications market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Radiation-Hardened Processors for Space Applications market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Radiation-Hardened Processors for Space Applications market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 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 Radiation-Hardened Processors for Space Applications

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 Radiation-Hardened Processors for Space Applications 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 BAE Systems plc, Microchip Technology Incorporated, Frontgrade Technologies Inc., VORAGO Technologies, Inc., Moog Inc., Honeywell International Inc., Mitsubishi Heavy Industries, Ltd., Zhuhai Hangyu Micro Technology Co., Ltd., China Aerospace Times Electronics Co., Ltd., Beijing UCAS Technology Co., Ltd., etc.

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

## Market Segmentation

Radiation-Hardened Processors for Space Applications 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 in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Radiation-Hardened Microprocessor

Radiation-Hardened Microcontroller

Other

### Market segment by Instruction Set Architecture

SPARC Architecture

Arm Architecture

Power Architecture

RISC-V Architecture

x86 Architecture

Other

### Market segment by Processor Core Count

Single-Core Processor

Dual-Core Processor

Quad-Core Processor

Other

#### Market segment by Application

Command Data Handling

Payload Data Processing

Flight Control Computing

Communications Processing

Other

#### Major players covered

BAE Systems plc

Microchip Technology Incorporated

Frontgrade Technologies Inc.

VORAGO Technologies, Inc.

Moog Inc.

Honeywell International Inc.

Mitsubishi Heavy Industries, Ltd.

Zhuhai Hangyu Micro Technology Co., Ltd.

China Aerospace Times Electronics Co., Ltd.

Beijing UCAS Technology Co., Ltd.

Semi-Conductor Laboratory

Milandr

JSC Element

Angstrom JSC

JSC SPC ELVEES

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)

## Chapter Outline

Chapter 1, to describe Radiation-Hardened Processors for Space Applications product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Radiation-Hardened Processors for Space Applications, with price, sales quantity, revenue, and global market share of Radiation-Hardened Processors for Space Applications from 2021 to 2026.

Chapter 3, the Radiation-Hardened Processors for Space Applications competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Radiation-Hardened Processors for Space Applications breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Radiation-Hardened Processors for Space Applications market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Radiation-Hardened Processors for Space Applications.

Chapter 14 and 15, to describe Radiation-Hardened Processors for Space Applications sales channel, distributors, customers, research findings and conclusion.

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