

Global Space-Grade Solid-State Recorder 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 Space-Grade Solid-State Recorder market size was valued at US\$ 659 million in 2025 and is forecast to a readjusted size of US\$ 1031 million by 2032 with a CAGR of 6.5% during review period.

In 2025, global Space-Grade Solid-State Recorder production reached approximately 4,000 units, with an average global market price of around USD 160,000 per unit.

The gross profit margin of major companies in the industry was approximately 38%–60%.

In 2025, global production capacity was approximately 5,200 units.

A Space-Grade Solid-State Recorder is a radiation-tolerant onboard storage device used to capture, buffer, manage, and transmit payload or spacecraft data. It integrates nonvolatile memory, controllers, error correction, redundancy, high-speed interfaces, and data-management firmware. The scope excludes consumer solid-state drives, terrestrial industrial recorders, standalone memory chips, spacecraft computers without dedicated recording functions, ground storage systems, communication transmitters, and complete satellite payloads.

The industrial chain includes upstream radiation-tolerant memory, processors, FPGAs, interface chips, PCBs, connectors, shielding materials, and firmware tools. Midstream covers architecture design, electronics assembly, memory management development, error-correction integration, environmental testing, radiation qualification, and certification. Downstream applications include Earth-observation satellites, scientific

missions, communication satellites, reconnaissance systems, launch vehicles, space stations, and deep-space spacecraft.

Report Scope

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

Global Space-Grade Solid-State Recorder market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Space-Grade Solid-State Recorder 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 Space-Grade Solid-State Recorder 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 Space-Grade Solid-State Recorder

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 Space-Grade Solid-State Recorder 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 Curtiss-Wright Corporation, Mercury Systems, Inc., Ramon.Space, Teledyne Technologies Incorporated, Frontgrade Technologies, Beyond Gravity, Beijing Microelectronics Technology Institute, China Electronics Technology Group Corporation, etc.

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

Space-Grade Solid-State Recorder 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 Segmentation

Market segment by Type

NAND Flash Recorders

Radiation-hardened SRAM Recorders

Hybrid Memory Recorders

Market segment by Redundancy Architecture

Non-redundant Recorders

Cold-redundant Recorders

Hot-redundant Recorders

Market segment by Storage Capacity

Low-capacity(<1 TB)

Medium-capacity(>1–10 TB)

High-capacity(>10 TB)

Market segment by Application

Earth Observation Satellites

Scientific and Deep-space Spacecraft

Communication and Navigation Satellites

Other

Major players covered

Curtiss-Wright Corporation

Mercury Systems, Inc.

Ramon.Space

Teledyne Technologies Incorporated

Frontgrade Technologies

Beyond Gravity

Beijing Microelectronics Technology Institute

China Electronics Technology Group Corporation

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 Space-Grade Solid-State Recorder product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Space-Grade Solid-State Recorder, with price, sales quantity, revenue, and global market share of Space-Grade Solid-State Recorder from 2021 to 2026.

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

Chapter 4, the Space-Grade Solid-State Recorder 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 Space-Grade Solid-State Recorder 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 Space-Grade Solid-State Recorder.

Chapter 14 and 15, to describe Space-Grade Solid-State Recorder sales channel, distributors, customers, research findings and conclusion.

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