

Global Space-Grade Solid-State Recorder Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Space-Grade Solid-State Recorder market size is expected to reach \$ 1031 million by 2032, rising at a market growth of 6.5% CAGR during the forecast period (2026-2032).

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 studies the global Space-Grade Solid-State Recorder production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Space-Grade Solid-State Recorder and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Space-Grade Solid-State Recorder that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Space-Grade Solid-State Recorder total production and demand, 2021-2032, (Units)

Global Space-Grade Solid-State Recorder total production value, 2021-2032, (USD Million)

Global Space-Grade Solid-State Recorder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Space-Grade Solid-State Recorder consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Space-Grade Solid-State Recorder domestic production, consumption, key domestic manufacturers and share

Global Space-Grade Solid-State Recorder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Space-Grade Solid-State Recorder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Space-Grade Solid-State Recorder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Space-Grade Solid-State Recorder market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Space-Grade Solid-State Recorder market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Space-Grade Solid-State Recorder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Space-Grade Solid-State Recorder Market, Segmentation by Type:

NAND Flash Recorders

Radiation-hardened SRAM Recorders

Hybrid Memory Recorders

Global Space-Grade Solid-State Recorder Market, Segmentation by Redundancy Architecture:

Non-redundant Recorders

Cold-redundant Recorders

Hot-redundant Recorders

Global Space-Grade Solid-State Recorder Market, Segmentation by Storage Capacity:

Low-capacity(<1 TB)

Medium-capacity(>1–10 TB)

High-capacity(>10 TB)

Global Space-Grade Solid-State Recorder Market, Segmentation by Application:

Earth Observation Satellites

Scientific and Deep-space Spacecraft

Communication and Navigation Satellites

Other

Companies Profiled:

Curtiss-Wright Corporation

Mercury Systems, Inc.

Ramon.Space

Teledyne Technologies Incorporated

Frontgrade Technologies

Beyond Gravity

Beijing Microelectronics Technology Institute

China Electronics Technology Group Corporation

Key Questions Answered:

1. How big is the global Space-Grade Solid-State Recorder market?
2. What is the demand of the global Space-Grade Solid-State Recorder market?
3. What is the year over year growth of the global Space-Grade Solid-State Recorder

market?

4. What is the production and production value of the global Space-Grade Solid-State Recorder market?
5. Who are the key producers in the global Space-Grade Solid-State Recorder market?
6. What are the growth factors driving the market demand?

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