

Global Radiation-Hardened SSD Market Research Report 2026(Status and Outlook)

<https://marketpublishers.com/r/G536EB43D057EN.html>

Date: March 2026

Pages: 134

Price: US\$ 3,200.00 (Single User License)

ID: G536EB43D057EN

Abstracts

Radiation-Hardened SSD uses special materials and designs to ensure that they can work properly and store data in environments where radiation exists, such as space, nuclear facilities, etc. Such SSDs usually have higher radiation resistance, more stable performance, and longer service life to meet data storage needs in extreme environments.

The global Radiation-Hardened SSD market size was estimated at USD 768.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 5.40% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Radiation-Hardened SSD market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Radiation-Hardened SSD market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Radiation-Hardened SSD market.

Global Radiation-Hardened SSD Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Exascend
Mercury Systems
Smart Modular Technologies
Greenliant
Flexxon
Foremay
Seagate
Microchip Technology
Curtiss-Wright Defense Solutions

Market Segmentation (by Type)

Low Radiation-Hardened SSD
Medium Radiation-Hardened SSD
High Radiation-Hardened SSD

Market Segmentation (by Application)

Space Exploration
Nuclear Facilities
Military
Aerospace
Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Radiation-Hardened SSD Market
Overview of the regional outlook of the Radiation-Hardened SSD Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Radiation-Hardened SSD Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Radiation-Hardened SSD, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Radiation-Hardened SSD

1.2 Key Market Segments

1.2.1 Radiation-Hardened SSD Segment by Type

1.2.2 Radiation-Hardened SSD Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 RADIATION-HARDENED SSD MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Radiation-Hardened SSD Market Size (M USD) Estimates and Forecasts (2020-2035)

2.1.2 Global Radiation-Hardened SSD Sales Estimates and Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 RADIATION-HARDENED SSD MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Radiation-Hardened SSD Product Life Cycle

3.3 Global Radiation-Hardened SSD Sales by Manufacturers (2020-2025)

3.4 Global Radiation-Hardened SSD Revenue Market Share by Manufacturers (2020-2025)

3.5 Radiation-Hardened SSD Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Radiation-Hardened SSD Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Radiation-Hardened SSD Market Competitive Situation and Trends

3.8.1 Radiation-Hardened SSD Market Concentration Rate

3.8.2 Global 5 and 10 Largest Radiation-Hardened SSD Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 RADIATION-HARDENED SSD INDUSTRY CHAIN ANALYSIS

4.1 Radiation-Hardened SSD Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF RADIATION-HARDENED SSD MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Radiation-Hardened SSD Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Radiation-Hardened SSD Market

5.7 ESG Ratings of Leading Companies

6 RADIATION-HARDENED SSD MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Radiation-Hardened SSD Sales Market Share by Type (2020-2025)

6.3 Global Radiation-Hardened SSD Market Size by Type (2020-2025)

6.4 Global Radiation-Hardened SSD Price by Type (2020-2025)

7 RADIATION-HARDENED SSD MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Radiation-Hardened SSD Market Sales by Application (2020-2025)
- 7.3 Global Radiation-Hardened SSD Market Size (M USD) by Application (2020-2025)
- 7.4 Global Radiation-Hardened SSD Sales Growth Rate by Application (2020-2025)

8 RADIATION-HARDENED SSD MARKET SALES BY REGION

- 8.1 Global Radiation-Hardened SSD Sales by Region
 - 8.1.1 Global Radiation-Hardened SSD Sales by Region
 - 8.1.2 Global Radiation-Hardened SSD Sales Market Share by Region
- 8.2 Global Radiation-Hardened SSD Market Size by Region
 - 8.2.1 Global Radiation-Hardened SSD Market Size by Region
 - 8.2.2 Global Radiation-Hardened SSD Market Size by Region
- 8.3 North America
 - 8.3.1 North America Radiation-Hardened SSD Sales by Country
 - 8.3.2 North America Radiation-Hardened SSD Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Radiation-Hardened SSD Sales by Country
 - 8.4.2 Europe Radiation-Hardened SSD Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific Radiation-Hardened SSD Sales by Region
 - 8.5.2 Asia Pacific Radiation-Hardened SSD Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview
 - 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Radiation-Hardened SSD Sales by Country
 - 8.6.2 South America Radiation-Hardened SSD Market Size by Country

- 8.6.3 Brazil Market Overview
- 8.6.4 Argentina Market Overview
- 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Radiation-Hardened SSD Sales by Region
 - 8.7.2 Middle East and Africa Radiation-Hardened SSD Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 RADIATION-HARDENED SSD MARKET PRODUCTION BY REGION

- 9.1 Global Production of Radiation-Hardened SSD by Region(2020-2025)
- 9.2 Global Radiation-Hardened SSD Revenue Market Share by Region (2020-2025)
- 9.3 Global Radiation-Hardened SSD Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Radiation-Hardened SSD Production
 - 9.4.1 North America Radiation-Hardened SSD Production Growth Rate (2020-2025)
 - 9.4.2 North America Radiation-Hardened SSD Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Radiation-Hardened SSD Production
 - 9.5.1 Europe Radiation-Hardened SSD Production Growth Rate (2020-2025)
 - 9.5.2 Europe Radiation-Hardened SSD Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Radiation-Hardened SSD Production (2020-2025)
 - 9.6.1 Japan Radiation-Hardened SSD Production Growth Rate (2020-2025)
 - 9.6.2 Japan Radiation-Hardened SSD Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Radiation-Hardened SSD Production (2020-2025)
 - 9.7.1 China Radiation-Hardened SSD Production Growth Rate (2020-2025)
 - 9.7.2 China Radiation-Hardened SSD Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

- 10.1 Exascend
 - 10.1.1 Exascend Basic Information

- 10.1.2 Exascend Radiation-Hardened SSD Product Overview
- 10.1.3 Exascend Radiation-Hardened SSD Product Market Performance
- 10.1.4 Exascend Business Overview
- 10.1.5 Exascend SWOT Analysis
- 10.1.6 Exascend Recent Developments
- 10.2 Mercury Systems
 - 10.2.1 Mercury Systems Basic Information
 - 10.2.2 Mercury Systems Radiation-Hardened SSD Product Overview
 - 10.2.3 Mercury Systems Radiation-Hardened SSD Product Market Performance
 - 10.2.4 Mercury Systems Business Overview
 - 10.2.5 Mercury Systems SWOT Analysis
 - 10.2.6 Mercury Systems Recent Developments
- 10.3 Smart Modular Technologies
 - 10.3.1 Smart Modular Technologies Basic Information
 - 10.3.2 Smart Modular Technologies Radiation-Hardened SSD Product Overview
 - 10.3.3 Smart Modular Technologies Radiation-Hardened SSD Product Market Performance
 - 10.3.4 Smart Modular Technologies Business Overview
 - 10.3.5 Smart Modular Technologies SWOT Analysis
 - 10.3.6 Smart Modular Technologies Recent Developments
- 10.4 Greenliant
 - 10.4.1 Greenliant Basic Information
 - 10.4.2 Greenliant Radiation-Hardened SSD Product Overview
 - 10.4.3 Greenliant Radiation-Hardened SSD Product Market Performance
 - 10.4.4 Greenliant Business Overview
 - 10.4.5 Greenliant Recent Developments
- 10.5 Flexxon
 - 10.5.1 Flexxon Basic Information
 - 10.5.2 Flexxon Radiation-Hardened SSD Product Overview
 - 10.5.3 Flexxon Radiation-Hardened SSD Product Market Performance
 - 10.5.4 Flexxon Business Overview
 - 10.5.5 Flexxon Recent Developments
- 10.6 Foremay
 - 10.6.1 Foremay Basic Information
 - 10.6.2 Foremay Radiation-Hardened SSD Product Overview
 - 10.6.3 Foremay Radiation-Hardened SSD Product Market Performance
 - 10.6.4 Foremay Business Overview
 - 10.6.5 Foremay Recent Developments
- 10.7 Seagate

- 10.7.1 Seagate Basic Information
- 10.7.2 Seagate Radiation-Hardened SSD Product Overview
- 10.7.3 Seagate Radiation-Hardened SSD Product Market Performance
- 10.7.4 Seagate Business Overview
- 10.7.5 Seagate Recent Developments
- 10.8 Microchip Technology
 - 10.8.1 Microchip Technology Basic Information
 - 10.8.2 Microchip Technology Radiation-Hardened SSD Product Overview
 - 10.8.3 Microchip Technology Radiation-Hardened SSD Product Market Performance
 - 10.8.4 Microchip Technology Business Overview
 - 10.8.5 Microchip Technology Recent Developments
- 10.9 Curtiss-Wright Defense Solutions
 - 10.9.1 Curtiss-Wright Defense Solutions Basic Information
 - 10.9.2 Curtiss-Wright Defense Solutions Radiation-Hardened SSD Product Overview
 - 10.9.3 Curtiss-Wright Defense Solutions Radiation-Hardened SSD Product Market Performance
 - 10.9.4 Curtiss-Wright Defense Solutions Business Overview
 - 10.9.5 Curtiss-Wright Defense Solutions Recent Developments

11 RADIATION-HARDENED SSD MARKET FORECAST BY REGION

- 11.1 Global Radiation-Hardened SSD Market Size Forecast
- 11.2 Global Radiation-Hardened SSD Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe Radiation-Hardened SSD Market Size Forecast by Country
 - 11.2.3 Asia Pacific Radiation-Hardened SSD Market Size Forecast by Region
 - 11.2.4 South America Radiation-Hardened SSD Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of Radiation-Hardened SSD by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

- 12.1 Global Radiation-Hardened SSD Market Forecast by Type (2026-2035)
 - 12.1.1 Global Forecasted Sales of Radiation-Hardened SSD by Type (2026-2035)
 - 12.1.2 Global Radiation-Hardened SSD Market Size Forecast by Type (2026-2035)
 - 12.1.3 Global Forecasted Price of Radiation-Hardened SSD by Type (2026-2035)
- 12.2 Global Radiation-Hardened SSD Market Forecast by Application (2026-2035)
 - 12.2.1 Global Radiation-Hardened SSD Sales (K Units) Forecast by Application
 - 12.2.2 Global Radiation-Hardened SSD Market Size (M USD) Forecast by Application

(2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Radiation-Hardened SSD Market Size by Type (M USD)

Table 4. Global Radiation-Hardened SSD Market Size by Application

Table 5. Radiation-Hardened SSD Market Size Comparison by Region (M USD)

Table 6. Global Radiation-Hardened SSD Sales (K Units) by Manufacturers
(2020-2025)

Table 7. Global Radiation-Hardened SSD Sales Market Share by Manufacturers
(2020-2025)

Table 8. Global Radiation-Hardened SSD Revenue (M USD) by Manufacturers
(2020-2025)

Table 9. Global Radiation-Hardened SSD Revenue Share by Manufacturers
(2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in
Radiation-Hardened SSD as of 2025)

Table 11. Global Market Radiation-Hardened SSD Average Price (USD/Unit) of Key
Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Radiation-Hardened SSD Manufacturers Market Concentration Ratio
(CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Radiation-Hardened SSD Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading
Countries

Table 26. Global Radiation-Hardened SSD Sales by Type (K Units)

Table 27. Global Radiation-Hardened SSD Market Size by Type (M USD)

- Table 28. Global Radiation-Hardened SSD Sales (K Units) by Type (2020-2025)
- Table 29. Global Radiation-Hardened SSD Sales Market Share by Type (2020-2025)
- Table 30. Global Radiation-Hardened SSD Market Size (M USD) by Type (2020-2025)
- Table 31. Global Radiation-Hardened SSD Market Share by Type (2020-2025)
- Table 32. Global Radiation-Hardened SSD Price (USD/Unit) by Type (2020-2025)
- Table 33. Global Radiation-Hardened SSD Sales (K Units) by Application
- Table 34. Global Radiation-Hardened SSD Market Size by Application
- Table 35. Global Radiation-Hardened SSD Sales by Application (2020-2025) & (K Units)
- Table 36. Global Radiation-Hardened SSD Sales Market Share by Application (2020-2025)
- Table 37. Global Radiation-Hardened SSD Market Size by Application (2020-2025) & (M USD)
- Table 38. Global Radiation-Hardened SSD Market Share by Application (2020-2025)
- Table 39. Global Radiation-Hardened SSD Sales Growth Rate by Application (2020-2025)
- Table 40. Global Radiation-Hardened SSD Sales by Region (2020-2025) & (K Units)
- Table 41. Global Radiation-Hardened SSD Sales Market Share by Region (2020-2025)
- Table 42. Global Radiation-Hardened SSD Market Size by Region (2020-2025) & (M USD)
- Table 43. Global Radiation-Hardened SSD Market Size by Region (2020-2025)
- Table 44. North America Radiation-Hardened SSD Sales by Country (2020-2025) & (K Units)
- Table 45. North America Radiation-Hardened SSD Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe Radiation-Hardened SSD Sales by Country (2020-2025) & (K Units)
- Table 47. Europe Radiation-Hardened SSD Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific Radiation-Hardened SSD Sales by Region (2020-2025) & (K Units)
- Table 49. Asia Pacific Radiation-Hardened SSD Market Size by Region (2020-2025) & (M USD)
- Table 50. South America Radiation-Hardened SSD Sales by Country (2020-2025) & (K Units)
- Table 51. South America Radiation-Hardened SSD Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa Radiation-Hardened SSD Sales by Region (2020-2025) & (K Units)
- Table 53. Middle East and Africa Radiation-Hardened SSD Market Size by Region

(2020-2025) & (M USD)

Table 54. Global Radiation-Hardened SSD Production (K Units) by Region(2020-2025)

Table 55. Global Radiation-Hardened SSD Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Radiation-Hardened SSD Revenue Market Share by Region (2020-2025)

Table 57. Global Radiation-Hardened SSD Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Radiation-Hardened SSD Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Radiation-Hardened SSD Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Radiation-Hardened SSD Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Radiation-Hardened SSD Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. Exascend Basic Information

Table 63. Exascend Radiation-Hardened SSD Product Overview

Table 64. Exascend Radiation-Hardened SSD Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Exascend Business Overview

Table 66. Exascend SWOT Analysis

Table 67. Exascend Recent Developments

Table 68. Mercury Systems Basic Information

Table 69. Mercury Systems Radiation-Hardened SSD Product Overview

Table 70. Mercury Systems Radiation-Hardened SSD Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. Mercury Systems Business Overview

Table 72. Mercury Systems SWOT Analysis

Table 73. Mercury Systems Recent Developments

Table 74. Smart Modular Technologies Basic Information

Table 75. Smart Modular Technologies Radiation-Hardened SSD Product Overview

Table 76. Smart Modular Technologies Radiation-Hardened SSD Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. Smart Modular Technologies Business Overview

Table 78. Smart Modular Technologies SWOT Analysis

Table 79. Smart Modular Technologies Recent Developments

Table 80. Greenliant Basic Information

Table 81. Greenliant Radiation-Hardened SSD Product Overview

Table 82. Greenliant Radiation-Hardened SSD Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 83. Greenliant Business Overview

Table 84. Greenliant Recent Developments

Table 85. Flexxon Basic Information

Table 86. Flexxon Radiation-Hardened SSD Product Overview

Table 87. Flexxon Radiation-Hardened SSD Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 88. Flexxon Business Overview

Table 89. Flexxon Recent Developments

Table 90. Foremay Basic Information

Table 91. Foremay Radiation-Hardened SSD Product Overview

Table 92. Foremay Radiation-Hardened SSD Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 93. Foremay Business Overview

Table 94. Foremay Recent Developments

Table 95. Seagate Basic Information

Table 96. Seagate Radiation-Hardened SSD Product Overview

Table 97. Seagate Radiation-Hardened SSD Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 98. Seagate Business Overview

Table 99. Seagate Recent Developments

Table 100. Microchip Technology Basic Information

Table 101. Microchip Technology Radiation-Hardened SSD Product Overview

Table 102. Microchip Technology Radiation-Hardened SSD Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 103. Microchip Technology Business Overview

Table 104. Microchip Technology Recent Developments

Table 105. Curtiss-Wright Defense Solutions Basic Information

Table 106. Curtiss-Wright Defense Solutions Radiation-Hardened SSD Product Overview

Table 107. Curtiss-Wright Defense Solutions Radiation-Hardened SSD Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 108. Curtiss-Wright Defense Solutions Business Overview

Table 109. Curtiss-Wright Defense Solutions Recent Developments

Table 110. Global Radiation-Hardened SSD Sales Forecast by Region (2026-2035) & (K Units)

Table 111. Global Radiation-Hardened SSD Market Size Forecast by Region (2026-2035) & (M USD)

Table 112. North America Radiation-Hardened SSD Sales Forecast by Country (2026-2035) & (K Units)

Table 113. North America Radiation-Hardened SSD Market Size Forecast by Country (2026-2035) & (M USD)

Table 114. Europe Radiation-Hardened SSD Sales Forecast by Country (2026-2035) & (K Units)

Table 115. Europe Radiation-Hardened SSD Market Size Forecast by Country (2026-2035) & (M USD)

Table 116. Asia Pacific Radiation-Hardened SSD Sales Forecast by Region (2026-2035) & (K Units)

Table 117. Asia Pacific Radiation-Hardened SSD Market Size Forecast by Region (2026-2035) & (M USD)

Table 118. South America Radiation-Hardened SSD Sales Forecast by Country (2026-2035) & (K Units)

Table 119. South America Radiation-Hardened SSD Market Size Forecast by Country (2026-2035) & (M USD)

Table 120. Middle East and Africa Radiation-Hardened SSD Sales Forecast by Country (2026-2035) & (Units)

Table 121. Middle East and Africa Radiation-Hardened SSD Market Size Forecast by Country (2026-2035) & (M USD)

Table 122. Global Radiation-Hardened SSD Sales Forecast by Type (2026-2035) & (K Units)

Table 123. Global Radiation-Hardened SSD Market Size Forecast by Type (2026-2035) & (M USD)

Table 124. Global Radiation-Hardened SSD Price Forecast by Type (2026-2035) & (USD/Unit)

Table 125. Global Radiation-Hardened SSD Sales (K Units) Forecast by Application (2026-2035)

Table 126. Global Radiation-Hardened SSD Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Radiation-Hardened SSD
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Radiation-Hardened SSD Market Size (M USD), 2025-2035
- Figure 5. Global Radiation-Hardened SSD Market Size (M USD) (2020-2035)
- Figure 6. Global Radiation-Hardened SSD Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Radiation-Hardened SSD Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Radiation-Hardened SSD Product Life Cycle
- Figure 13. Radiation-Hardened SSD Sales Share by Manufacturers in 2025
- Figure 14. Global Radiation-Hardened SSD Revenue Share by Manufacturers in 2025
- Figure 15. Radiation-Hardened SSD Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Radiation-Hardened SSD Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Radiation-Hardened SSD Revenue in 2025
- Figure 18. Industry Chain Map of Radiation-Hardened SSD
- Figure 19. Global Radiation-Hardened SSD Market PEST Analysis
- Figure 20. Global Radiation-Hardened SSD Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Radiation-Hardened SSD Market Share by Type
- Figure 27. Sales Market Share of Radiation-Hardened SSD by Type (2020-2025)
- Figure 28. Sales Market Share of Radiation-Hardened SSD by Type in 2025
- Figure 29. Market Share of Radiation-Hardened SSD by Type (2020-2025)
- Figure 30. Market Share of Radiation-Hardened SSD by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Radiation-Hardened SSD Market Share by Application

Figure 33. Global Radiation-Hardened SSD Sales Market Share by Application (2020-2025)

Figure 34. Global Radiation-Hardened SSD Sales Market Share by Application in 2025

Figure 35. Global Radiation-Hardened SSD Market Share by Application (2020-2025)

Figure 36. Global Radiation-Hardened SSD Market Share by Application in 2025

Figure 37. Global Radiation-Hardened SSD Sales Growth Rate by Application (2020-2025)

Figure 38. Global Radiation-Hardened SSD Sales Market Share by Region (2020-2025)

Figure 39. Global Radiation-Hardened SSD Market Size by Region (2020-2025)

Figure 40. North America Radiation-Hardened SSD Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Radiation-Hardened SSD Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Radiation-Hardened SSD Sales Market Share by Country in 2024

Figure 43. North America Radiation-Hardened SSD Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Radiation-Hardened SSD Market Size by Country in 2024

Figure 45. U.S. Radiation-Hardened SSD Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Radiation-Hardened SSD Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Radiation-Hardened SSD Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Radiation-Hardened SSD Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Radiation-Hardened SSD Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Radiation-Hardened SSD Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Radiation-Hardened SSD Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Radiation-Hardened SSD Sales Market Share by Country in 2024

Figure 53. Europe Radiation-Hardened SSD Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Radiation-Hardened SSD Market Size by Country in 2024

Figure 55. Germany Radiation-Hardened SSD Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Radiation-Hardened SSD Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 57. France Radiation-Hardened SSD Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Radiation-Hardened SSD Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Radiation-Hardened SSD Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Radiation-Hardened SSD Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Radiation-Hardened SSD Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Radiation-Hardened SSD Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Radiation-Hardened SSD Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Radiation-Hardened SSD Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Radiation-Hardened SSD Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Radiation-Hardened SSD Sales Market Share by Region in 2024

Figure 67. Asia Pacific Radiation-Hardened SSD Market Size by Region in 2024

Figure 68. China Radiation-Hardened SSD Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Radiation-Hardened SSD Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Radiation-Hardened SSD Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Radiation-Hardened SSD Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Radiation-Hardened SSD Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Radiation-Hardened SSD Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Radiation-Hardened SSD Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Radiation-Hardened SSD Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Radiation-Hardened SSD Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Radiation-Hardened SSD Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 78. South America Radiation-Hardened SSD Sales and Growth Rate (K Units)

Figure 79. South America Radiation-Hardened SSD Sales Market Share by Country in 2024

Figure 80. South America Radiation-Hardened SSD Market Size and Growth Rate (M USD)

Figure 81. South America Radiation-Hardened SSD Market Size by Country in 2024

Figure 82. Brazil Radiation-Hardened SSD Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Radiation-Hardened SSD Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Radiation-Hardened SSD Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Radiation-Hardened SSD Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Radiation-Hardened SSD Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Radiation-Hardened SSD Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Radiation-Hardened SSD Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Radiation-Hardened SSD Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Radiation-Hardened SSD Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Radiation-Hardened SSD Market Size by Region in 2024

Figure 92. Saudi Arabia Radiation-Hardened SSD Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Radiation-Hardened SSD Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Radiation-Hardened SSD Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Radiation-Hardened SSD Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Radiation-Hardened SSD Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Radiation-Hardened SSD Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Radiation-Hardened SSD Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Radiation-Hardened SSD Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Radiation-Hardened SSD Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Radiation-Hardened SSD Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Radiation-Hardened SSD Production Market Share by Region (2020-2025)

Figure 103. North America Radiation-Hardened SSD Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Radiation-Hardened SSD Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Radiation-Hardened SSD Production (K Units) Growth Rate (2020-2025)

Figure 106. China Radiation-Hardened SSD Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Radiation-Hardened SSD Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Radiation-Hardened SSD Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Radiation-Hardened SSD Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Radiation-Hardened SSD Market Share Forecast by Type (2026-2035)

Figure 111. Global Radiation-Hardened SSD Sales Forecast by Application (2026-2035)

Figure 112. Global Radiation-Hardened SSD Market Share Forecast by Application (2026-2035)

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