

# Global VPX SSD Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global VPX SSD market size is expected to reach \$ 388 million by 2032, rising at a market growth of 3.2% CAGR during the forecast period (2026-2032).

VPX SSDs are modular solid-state storage boards that conform to the VITA 46 series standard. They are designed for harsh environments such as military, aerospace, and high-end industries. They adopt the VPX bus architecture and high-speed PCIe/NVMe protocol, and integrate high-density flash memory storage in 3U/6U standard board form factors. They provide high-bandwidth, low-latency, and environmentally resistant storage solutions, and are compatible with VPX chassis and backplane systems. They are the core storage components of high-performance embedded systems such as radar, electronic warfare, airborne/vehicle-borne/shipborne computers.

In 2025, the global production of VPX SSDs is expected to reach 35,000 units, with an average price of \$8,600 per unit.

Upstream mainly includes NAND flash memory chips, controller chips, DRAM cache, power management ICs, and high-reliability PCBs and connectors, along with firmware development and data protection algorithm capabilities. The upstream has high technical barriers, particularly in high-reliability memory and controller solutions, which are dominated by a limited number of leading semiconductor suppliers, making costs sensitive to chip price fluctuations. Downstream is concentrated in high-reliability sectors, including military electronic systems, airborne and spaceborne equipment, rail transit control systems, and industrial embedded platforms. These applications require high levels of data security, real-time performance, and environmental robustness, often involving customized solutions. With the advancement of defense informatization, avionics upgrades, and localization trends, demand for VPX SSDs continues to grow,

while emerging applications such as industrial edge computing are also creating new opportunities.

From a development perspective, VPX SSDs are evolving toward higher performance, enhanced reliability, and stronger data security capabilities, with emphasis on shock resistance, radiation tolerance, and wide operating temperature ranges, as well as continuous improvements in interface bandwidth and storage density. Key drivers include strong demand from defense and aerospace sectors for high-performance embedded storage, as well as increasing storage requirements driven by data-intensive applications. Additionally, localization and supply chain security concerns are accelerating technological advancements among domestic manufacturers. However, challenges include high dependence on core chips, significant R&D costs, and long certification cycles. The industry is also characterized by high customer concentration and project-based orders, which constrain large-scale expansion. Rapid technological evolution and increasingly stringent data security standards further increase the need for continuous investment.

In terms of profitability, the VPX SSD industry generally maintains high gross margins, typically ranging from 40% to 70%. High-reliability, highly customized products for defense and aerospace applications achieve higher margins, while more standardized industrial-grade products have relatively lower margins. Overall, the industry demonstrates strong profitability, though it is influenced by upstream chip price fluctuations and project cycles. Companies can maintain stable margins by enhancing self-reliance in core technologies, strengthening customized solutions, and expanding into high-end application sectors.

This report studies the global VPX SSD production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for VPX SSD 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 VPX SSD that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global VPX SSD total production and demand, 2021-2032, (K Units)

Global VPX SSD total production value, 2021-2032, (USD Million)

Global VPX SSD production by region & country, production, value, CAGR, 2021-2032,

(USD Million) & (K Units), (based on production site)

Global VPX SSD consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: VPX SSD domestic production, consumption, key domestic manufacturers and share

Global VPX SSD production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global VPX SSD production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global VPX SSD production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global VPX SSD 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, Mercury Systems, Extreme Engineering Solutions, Phoenix International, Critical I/O, MEMKOR, EMCOMO Solutions, Elma Electronic, Annapolis Micro Systems, Foremay, 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 VPX SSD market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 VPX SSD Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global VPX SSD Market, Segmentation by Type:

3U VPX

6U VPX

#### Global VPX SSD Market, Segmentation by Interface Type:

NVMe

PCIe

Combined Interface

#### Global VPX SSD Market, Segmentation by Storage Media:

SLC

TLC

QLC

Hybrid

## Global VPX SSD Market, Segmentation by Application:

Military & Defense

Aerospace

Industrial Automation

Data Acquisition

Network & Communications

Other

## Companies Profiled:

Curtiss-Wright

Mercury Systems

Extreme Engineering Solutions

Phoenix International

Critical I/O

MEMKOR

EMCOMO Solutions

Elma Electronic

Annapolis Micro Systems

Foremay

Renice

## Beijing Queentest Technology

### **Key Questions Answered:**

1. How big is the global VPX SSD market?
2. What is the demand of the global VPX SSD market?
3. What is the year over year growth of the global VPX SSD market?
4. What is the production and production value of the global VPX SSD market?
5. Who are the key producers in the global VPX SSD market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 VPX SSD Introduction
- 1.2 World VPX SSD Supply & Forecast
  - 1.2.1 World VPX SSD Production Value (2021 & 2025 & 2032)
  - 1.2.2 World VPX SSD Production (2021-2032)
  - 1.2.3 World VPX SSD Pricing Trends (2021-2032)
- 1.3 World VPX SSD Production by Region (Based on Production Site)
  - 1.3.1 World VPX SSD Production Value by Region (2021-2032)
  - 1.3.2 World VPX SSD Production by Region (2021-2032)
  - 1.3.3 World VPX SSD Average Price by Region (2021-2032)
  - 1.3.4 North America VPX SSD Production (2021-2032)
  - 1.3.5 Europe VPX SSD Production (2021-2032)
  - 1.3.6 China VPX SSD Production (2021-2032)
  - 1.3.7 Japan VPX SSD Production (2021-2032)
  - 1.3.8 South Korea VPX SSD Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 VPX SSD Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 VPX SSD Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World VPX SSD Demand (2021-2032)
- 2.2 World VPX SSD Consumption by Region
  - 2.2.1 World VPX SSD Consumption by Region (2021-2026)
  - 2.2.2 World VPX SSD Consumption Forecast by Region (2027-2032)
- 2.3 United States VPX SSD Consumption (2021-2032)
- 2.4 China VPX SSD Consumption (2021-2032)
- 2.5 Europe VPX SSD Consumption (2021-2032)
- 2.6 Japan VPX SSD Consumption (2021-2032)
- 2.7 South Korea VPX SSD Consumption (2021-2032)
- 2.8 ASEAN VPX SSD Consumption (2021-2032)
- 2.9 India VPX SSD Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World VPX SSD Production Value by Manufacturer (2021-2026)
- 3.2 World VPX SSD Production by Manufacturer (2021-2026)
- 3.3 World VPX SSD Average Price by Manufacturer (2021-2026)
- 3.4 VPX SSD Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global VPX SSD Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for VPX SSD in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for VPX SSD in 2025
- 3.6 VPX SSD Market: Overall Company Footprint Analysis
  - 3.6.1 VPX SSD Market: Region Footprint
  - 3.6.2 VPX SSD Market: Company Product Type Footprint
  - 3.6.3 VPX SSD Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: VPX SSD Production Value Comparison
  - 4.1.1 United States VS China: VPX SSD Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: VPX SSD Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: VPX SSD Production Comparison
  - 4.2.1 United States VS China: VPX SSD Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: VPX SSD Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: VPX SSD Consumption Comparison
  - 4.3.1 United States VS China: VPX SSD Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: VPX SSD Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based VPX SSD Manufacturers and Market Share, 2021-2026
  - 4.4.1 United States Based VPX SSD Manufacturers, Headquarters and Production Site (States, Country)

- 4.4.2 United States Based Manufacturers VPX SSD Production Value (2021-2026)
- 4.4.3 United States Based Manufacturers VPX SSD Production (2021-2026)
- 4.5 China Based VPX SSD Manufacturers and Market Share
  - 4.5.1 China Based VPX SSD Manufacturers, Headquarters and Production Site (Province, Country)
  - 4.5.2 China Based Manufacturers VPX SSD Production Value (2021-2026)
  - 4.5.3 China Based Manufacturers VPX SSD Production (2021-2026)
- 4.6 Rest of World Based VPX SSD Manufacturers and Market Share, 2021-2026
  - 4.6.1 Rest of World Based VPX SSD Manufacturers, Headquarters and Production Site (State, Country)
  - 4.6.2 Rest of World Based Manufacturers VPX SSD Production Value (2021-2026)
  - 4.6.3 Rest of World Based Manufacturers VPX SSD Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

- 5.1 World VPX SSD Market Size Overview by Type: 2021 VS 2025 VS 2032
- 5.2 Segment Introduction by Type
  - 5.2.1 3U VPX
  - 5.2.2 6U VPX
- 5.3 Market Segment by Type
  - 5.3.1 World VPX SSD Production by Type (2021-2032)
  - 5.3.2 World VPX SSD Production Value by Type (2021-2032)
  - 5.3.3 World VPX SSD Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY INTERFACE TYPE**

- 6.1 World VPX SSD Market Size Overview by Interface Type: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Interface Type
  - 6.2.1 NVMe
  - 6.2.2 PCIe
  - 6.2.3 Combined Interface
- 6.3 Market Segment by Interface Type
  - 6.3.1 World VPX SSD Production by Interface Type (2021-2032)
  - 6.3.2 World VPX SSD Production Value by Interface Type (2021-2032)
  - 6.3.3 World VPX SSD Average Price by Interface Type (2021-2032)

## **7 MARKET ANALYSIS BY STORAGE MEDIA**

- 7.1 World VPX SSD Market Size Overview by Storage Media: 2021 VS 2025 VS 2032

## 7.2 Segment Introduction by Storage Media

7.2.1 SLC

7.2.2 TLC

7.2.3 QLC

7.2.4 Hybrid

## 7.3 Market Segment by Storage Media

7.3.1 World VPX SSD Production by Storage Media (2021-2032)

7.3.2 World VPX SSD Production Value by Storage Media (2021-2032)

7.3.3 World VPX SSD Average Price by Storage Media (2021-2032)

## 8 MARKET ANALYSIS BY APPLICATION

### 8.1 World VPX SSD Market Size Overview by Application: 2021 VS 2025 VS 2032

### 8.2 Segment Introduction by Application

8.2.1 Military & Defense

8.2.2 Aerospace

8.2.3 Industrial Automation

8.2.4 Data Acquisition

8.2.5 Network & Communications

8.2.6 Other

### 8.3 Market Segment by Application

8.3.1 World VPX SSD Production by Application (2021-2032)

8.3.2 World VPX SSD Production Value by Application (2021-2032)

8.3.3 World VPX SSD Average Price by Application (2021-2032)

## 9 COMPANY PROFILES

### 9.1 Curtiss-Wright

9.1.1 Curtiss-Wright Details

9.1.2 Curtiss-Wright Major Business

9.1.3 Curtiss-Wright VPX SSD Product and Services

9.1.4 Curtiss-Wright VPX SSD Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Curtiss-Wright Recent Developments/Updates

9.1.6 Curtiss-Wright Competitive Strengths & Weaknesses

### 9.2 Mercury Systems

9.2.1 Mercury Systems Details

9.2.2 Mercury Systems Major Business

9.2.3 Mercury Systems VPX SSD Product and Services

- 9.2.4 Mercury Systems VPX SSD Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 Mercury Systems Recent Developments/Updates
- 9.2.6 Mercury Systems Competitive Strengths & Weaknesses
- 9.3 Extreme Engineering Solutions
  - 9.3.1 Extreme Engineering Solutions Details
  - 9.3.2 Extreme Engineering Solutions Major Business
  - 9.3.3 Extreme Engineering Solutions VPX SSD Product and Services
  - 9.3.4 Extreme Engineering Solutions VPX SSD Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.3.5 Extreme Engineering Solutions Recent Developments/Updates
  - 9.3.6 Extreme Engineering Solutions Competitive Strengths & Weaknesses
- 9.4 Phoenix International
  - 9.4.1 Phoenix International Details
  - 9.4.2 Phoenix International Major Business
  - 9.4.3 Phoenix International VPX SSD Product and Services
  - 9.4.4 Phoenix International VPX SSD Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.4.5 Phoenix International Recent Developments/Updates
  - 9.4.6 Phoenix International Competitive Strengths & Weaknesses
- 9.5 Critical I/O
  - 9.5.1 Critical I/O Details
  - 9.5.2 Critical I/O Major Business
  - 9.5.3 Critical I/O VPX SSD Product and Services
  - 9.5.4 Critical I/O VPX SSD Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.5.5 Critical I/O Recent Developments/Updates
  - 9.5.6 Critical I/O Competitive Strengths & Weaknesses
- 9.6 MEMKOR
  - 9.6.1 MEMKOR Details
  - 9.6.2 MEMKOR Major Business
  - 9.6.3 MEMKOR VPX SSD Product and Services
  - 9.6.4 MEMKOR VPX SSD Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.6.5 MEMKOR Recent Developments/Updates
  - 9.6.6 MEMKOR Competitive Strengths & Weaknesses
- 9.7 EMCOMO Solutions
  - 9.7.1 EMCOMO Solutions Details
  - 9.7.2 EMCOMO Solutions Major Business

- 9.7.3 EMCOMO Solutions VPX SSD Product and Services
- 9.7.4 EMCOMO Solutions VPX SSD Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.7.5 EMCOMO Solutions Recent Developments/Updates
- 9.7.6 EMCOMO Solutions Competitive Strengths & Weaknesses
- 9.8 Elma Electronic
  - 9.8.1 Elma Electronic Details
  - 9.8.2 Elma Electronic Major Business
  - 9.8.3 Elma Electronic VPX SSD Product and Services
  - 9.8.4 Elma Electronic VPX SSD Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 Elma Electronic Recent Developments/Updates
  - 9.8.6 Elma Electronic Competitive Strengths & Weaknesses
- 9.9 Annapolis Micro Systems
  - 9.9.1 Annapolis Micro Systems Details
  - 9.9.2 Annapolis Micro Systems Major Business
  - 9.9.3 Annapolis Micro Systems VPX SSD Product and Services
  - 9.9.4 Annapolis Micro Systems VPX SSD Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 Annapolis Micro Systems Recent Developments/Updates
  - 9.9.6 Annapolis Micro Systems Competitive Strengths & Weaknesses
- 9.10 Foremay
  - 9.10.1 Foremay Details
  - 9.10.2 Foremay Major Business
  - 9.10.3 Foremay VPX SSD Product and Services
  - 9.10.4 Foremay VPX SSD Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.10.5 Foremay Recent Developments/Updates
  - 9.10.6 Foremay Competitive Strengths & Weaknesses
- 9.11 Renice
  - 9.11.1 Renice Details
  - 9.11.2 Renice Major Business
  - 9.11.3 Renice VPX SSD Product and Services
  - 9.11.4 Renice VPX SSD Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.11.5 Renice Recent Developments/Updates
  - 9.11.6 Renice Competitive Strengths & Weaknesses
- 9.12 Beijing Queentest Technology
  - 9.12.1 Beijing Queentest Technology Details

- 9.12.2 Beijing Queentest Technology Major Business
- 9.12.3 Beijing Queentest Technology VPX SSD Product and Services
- 9.12.4 Beijing Queentest Technology VPX SSD Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.12.5 Beijing Queentest Technology Recent Developments/Updates
- 9.12.6 Beijing Queentest Technology Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 VPX SSD Industry Chain
- 10.2 VPX SSD Upstream Analysis
  - 10.2.1 VPX SSD Core Raw Materials
  - 10.2.2 Main Manufacturers of VPX SSD Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 VPX SSD Production Mode
- 10.6 VPX SSD Procurement Model
- 10.7 VPX SSD Industry Sales Model and Sales Channels
  - 10.7.1 VPX SSD Sales Model
  - 10.7.2 VPX SSD Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

- Table 1. World VPX SSD Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World VPX SSD Production Value by Region (2021-2026) & (USD Million)
- Table 3. World VPX SSD Production Value by Region (2027-2032) & (USD Million)
- Table 4. World VPX SSD Production Value Market Share by Region (2021-2026)
- Table 5. World VPX SSD Production Value Market Share by Region (2027-2032)
- Table 6. World VPX SSD Production by Region (2021-2026) & (K Units)
- Table 7. World VPX SSD Production by Region (2027-2032) & (K Units)
- Table 8. World VPX SSD Production Market Share by Region (2021-2026)
- Table 9. World VPX SSD Production Market Share by Region (2027-2032)
- Table 10. World VPX SSD Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World VPX SSD Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. VPX SSD Major Market Trends
- Table 13. World VPX SSD Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World VPX SSD Consumption by Region (2021-2026) & (K Units)
- Table 15. World VPX SSD Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World VPX SSD Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key VPX SSD Producers in 2025
- Table 18. World VPX SSD Production by Manufacturer (2021-2026) & (K Units)
- Table 19. Production Market Share of Key VPX SSD Producers in 2025
- Table 20. World VPX SSD Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 21. Global VPX SSD Company Evaluation Quadrant
- Table 22. World VPX SSD Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and VPX SSD Production Site of Key Manufacturer
- Table 24. VPX SSD Market: Company Product Type Footprint
- Table 25. VPX SSD Market: Company Product Application Footprint
- Table 26. VPX SSD Competitive Factors
- Table 27. VPX SSD New Entrant and Capacity Expansion Plans
- Table 28. VPX SSD Mergers & Acquisitions Activity
- Table 29. United States VS China VPX SSD Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
- Table 30. United States VS China VPX SSD Production Comparison, (2021 & 2025 &

2032) & (K Units)

Table 31. United States VS China VPX SSD Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based VPX SSD Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers VPX SSD Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers VPX SSD Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers VPX SSD Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers VPX SSD Production Market Share (2021-2026)

Table 37. China Based VPX SSD Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers VPX SSD Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers VPX SSD Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers VPX SSD Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers VPX SSD Production Market Share (2021-2026)

Table 42. Rest of World Based VPX SSD Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers VPX SSD Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers VPX SSD Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers VPX SSD Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers VPX SSD Production Market Share (2021-2026)

Table 47. World VPX SSD Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World VPX SSD Production by Type (2021-2026) & (K Units)

Table 49. World VPX SSD Production by Type (2027-2032) & (K Units)

Table 50. World VPX SSD Production Value by Type (2021-2026) & (USD Million)

Table 51. World VPX SSD Production Value by Type (2027-2032) & (USD Million)

Table 52. World VPX SSD Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World VPX SSD Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World VPX SSD Production Value by Interface Type, (USD Million), 2021 & 2025 & 2032

Table 55. World VPX SSD Production by Interface Type (2021-2026) & (K Units)

Table 56. World VPX SSD Production by Interface Type (2027-2032) & (K Units)

Table 57. World VPX SSD Production Value by Interface Type (2021-2026) & (USD Million)

Table 58. World VPX SSD Production Value by Interface Type (2027-2032) & (USD Million)

Table 59. World VPX SSD Average Price by Interface Type (2021-2026) & (US\$/Unit)

Table 60. World VPX SSD Average Price by Interface Type (2027-2032) & (US\$/Unit)

Table 61. World VPX SSD Production Value by Storage Media, (USD Million), 2021 & 2025 & 2032

Table 62. World VPX SSD Production by Storage Media (2021-2026) & (K Units)

Table 63. World VPX SSD Production by Storage Media (2027-2032) & (K Units)

Table 64. World VPX SSD Production Value by Storage Media (2021-2026) & (USD Million)

Table 65. World VPX SSD Production Value by Storage Media (2027-2032) & (USD Million)

Table 66. World VPX SSD Average Price by Storage Media (2021-2026) & (US\$/Unit)

Table 67. World VPX SSD Average Price by Storage Media (2027-2032) & (US\$/Unit)

Table 68. World VPX SSD Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World VPX SSD Production by Application (2021-2026) & (K Units)

Table 70. World VPX SSD Production by Application (2027-2032) & (K Units)

Table 71. World VPX SSD Production Value by Application (2021-2026) & (USD Million)

Table 72. World VPX SSD Production Value by Application (2027-2032) & (USD Million)

Table 73. World VPX SSD Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World VPX SSD Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Curtiss-Wright Basic Information, Manufacturing Base and Competitors

Table 76. Curtiss-Wright Major Business

Table 77. Curtiss-Wright VPX SSD Product and Services

Table 78. Curtiss-Wright VPX SSD Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Curtiss-Wright Recent Developments/Updates

Table 80. Curtiss-Wright Competitive Strengths & Weaknesses

Table 81. Mercury Systems Basic Information, Manufacturing Base and Competitors

Table 82. Mercury Systems Major Business

Table 83. Mercury Systems VPX SSD Product and Services

Table 84. Mercury Systems VPX SSD Production (K Units), Price (US\$/Unit),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Mercury Systems Recent Developments/Updates

Table 86. Mercury Systems Competitive Strengths & Weaknesses

Table 87. Extreme Engineering Solutions Basic Information, Manufacturing Base and Competitors

Table 88. Extreme Engineering Solutions Major Business

Table 89. Extreme Engineering Solutions VPX SSD Product and Services

Table 90. Extreme Engineering Solutions VPX SSD Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Extreme Engineering Solutions Recent Developments/Updates

Table 92. Extreme Engineering Solutions Competitive Strengths & Weaknesses

Table 93. Phoenix International Basic Information, Manufacturing Base and Competitors

Table 94. Phoenix International Major Business

Table 95. Phoenix International VPX SSD Product and Services

Table 96. Phoenix International VPX SSD Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Phoenix International Recent Developments/Updates

Table 98. Phoenix International Competitive Strengths & Weaknesses

Table 99. Critical I/O Basic Information, Manufacturing Base and Competitors

Table 100. Critical I/O Major Business

Table 101. Critical I/O VPX SSD Product and Services

Table 102. Critical I/O VPX SSD Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Critical I/O Recent Developments/Updates

Table 104. Critical I/O Competitive Strengths & Weaknesses

Table 105. MEMKOR Basic Information, Manufacturing Base and Competitors

Table 106. MEMKOR Major Business

Table 107. MEMKOR VPX SSD Product and Services

Table 108. MEMKOR VPX SSD Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. MEMKOR Recent Developments/Updates

Table 110. MEMKOR Competitive Strengths & Weaknesses

Table 111. EMCOMO Solutions Basic Information, Manufacturing Base and Competitors

Table 112. EMCOMO Solutions Major Business

Table 113. EMCOMO Solutions VPX SSD Product and Services

Table 114. EMCOMO Solutions VPX SSD Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 115. EMCOMO Solutions Recent Developments/Updates
- Table 116. EMCOMO Solutions Competitive Strengths & Weaknesses
- Table 117. Elma Electronic Basic Information, Manufacturing Base and Competitors
- Table 118. Elma Electronic Major Business
- Table 119. Elma Electronic VPX SSD Product and Services
- Table 120. Elma Electronic VPX SSD Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Elma Electronic Recent Developments/Updates
- Table 122. Elma Electronic Competitive Strengths & Weaknesses
- Table 123. Annapolis Micro Systems Basic Information, Manufacturing Base and Competitors
- Table 124. Annapolis Micro Systems Major Business
- Table 125. Annapolis Micro Systems VPX SSD Product and Services
- Table 126. Annapolis Micro Systems VPX SSD Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Annapolis Micro Systems Recent Developments/Updates
- Table 128. Annapolis Micro Systems Competitive Strengths & Weaknesses
- Table 129. Foremay Basic Information, Manufacturing Base and Competitors
- Table 130. Foremay Major Business
- Table 131. Foremay VPX SSD Product and Services
- Table 132. Foremay VPX SSD Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Foremay Recent Developments/Updates
- Table 134. Foremay Competitive Strengths & Weaknesses
- Table 135. Renice Basic Information, Manufacturing Base and Competitors
- Table 136. Renice Major Business
- Table 137. Renice VPX SSD Product and Services
- Table 138. Renice VPX SSD Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Renice Recent Developments/Updates
- Table 140. Renice Competitive Strengths & Weaknesses
- Table 141. Beijing Queentest Technology Basic Information, Manufacturing Base and Competitors
- Table 142. Beijing Queentest Technology Major Business
- Table 143. Beijing Queentest Technology VPX SSD Product and Services
- Table 144. Beijing Queentest Technology VPX SSD Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. Beijing Queentest Technology Recent Developments/Updates

Table 146. Beijing Queentest Technology Competitive Strengths & Weaknesses

Table 147. Global Key Players of VPX SSD Upstream (Raw Materials)

Table 148. Global VPX SSD Typical Customers

Table 149. VPX SSD Typical Distributors

## List Of Figures

### LIST OF FIGURES

- Figure 1. VPX SSD Picture
- Figure 2. World VPX SSD Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World VPX SSD Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World VPX SSD Production (2021-2032) & (K Units)
- Figure 5. World VPX SSD Average Price (2021-2032) & (US\$/Unit)
- Figure 6. World VPX SSD Production Value Market Share by Region (2021-2032)
- Figure 7. World VPX SSD Production Market Share by Region (2021-2032)
- Figure 8. North America VPX SSD Production (2021-2032) & (K Units)
- Figure 9. Europe VPX SSD Production (2021-2032) & (K Units)
- Figure 10. China VPX SSD Production (2021-2032) & (K Units)
- Figure 11. Japan VPX SSD Production (2021-2032) & (K Units)
- Figure 12. South Korea VPX SSD Production (2021-2032) & (K Units)
- Figure 13. VPX SSD Market Drivers
- Figure 14. Factors Affecting Demand
- Figure 15. World VPX SSD Consumption (2021-2032) & (K Units)
- Figure 16. World VPX SSD Consumption Market Share by Region (2021-2032)
- Figure 17. United States VPX SSD Consumption (2021-2032) & (K Units)
- Figure 18. China VPX SSD Consumption (2021-2032) & (K Units)
- Figure 19. Europe VPX SSD Consumption (2021-2032) & (K Units)
- Figure 20. Japan VPX SSD Consumption (2021-2032) & (K Units)
- Figure 21. South Korea VPX SSD Consumption (2021-2032) & (K Units)
- Figure 22. ASEAN VPX SSD Consumption (2021-2032) & (K Units)
- Figure 23. India VPX SSD Consumption (2021-2032) & (K Units)
- Figure 24. Producer Shipments of VPX SSD by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 25. Global Four-firm Concentration Ratios (CR4) for VPX SSD Markets in 2025
- Figure 26. Global Four-firm Concentration Ratios (CR8) for VPX SSD Markets in 2025
- Figure 27. United States VS China: VPX SSD Production Value Market Share Comparison (2021 & 2025 & 2032)
- Figure 28. United States VS China: VPX SSD Production Market Share Comparison (2021 & 2025 & 2032)
- Figure 29. United States VS China: VPX SSD Consumption Market Share Comparison (2021 & 2025 & 2032)
- Figure 30. United States Based Manufacturers VPX SSD Production Market Share 2025

Figure 31. China Based Manufacturers VPX SSD Production Market Share 2025

Figure 32. Rest of World Based Manufacturers VPX SSD Production Market Share 2025

Figure 33. World VPX SSD Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World VPX SSD Production Value Market Share by Type in 2025

Figure 35. 3U VPX

Figure 36. 6U VPX

Figure 37. World VPX SSD Production Market Share by Type (2021-2032)

Figure 38. World VPX SSD Production Value Market Share by Type (2021-2032)

Figure 39. World VPX SSD Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World VPX SSD Production Value by Interface Type, (USD Million), 2021 & 2025 & 2032

Figure 41. World VPX SSD Production Value Market Share by Interface Type in 2025

Figure 42. NVMe

Figure 43. PCIe

Figure 44. Combined Interface

Figure 45. World VPX SSD Production Market Share by Interface Type (2021-2032)

Figure 46. World VPX SSD Production Value Market Share by Interface Type (2021-2032)

Figure 47. World VPX SSD Average Price by Interface Type (2021-2032) & (US\$/Unit)

Figure 48. World VPX SSD Production Value by Storage Media, (USD Million), 2021 & 2025 & 2032

Figure 49. World VPX SSD Production Value Market Share by Storage Media in 2025

Figure 50. SLC

Figure 51. TLC

Figure 52. QLC

Figure 53. Hybrid

Figure 54. World VPX SSD Production Market Share by Storage Media (2021-2032)

Figure 55. World VPX SSD Production Value Market Share by Storage Media (2021-2032)

Figure 56. World VPX SSD Average Price by Storage Media (2021-2032) & (US\$/Unit)

Figure 57. World VPX SSD Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World VPX SSD Production Value Market Share by Application in 2025

Figure 59. Military & Defense

Figure 60. Aerospace

Figure 61. Industrial Automation

Figure 62. Data Acquisition

Figure 63. Network & Communications

Figure 64. Other

Figure 65. World VPX SSD Production Market Share by Application (2021-2032)

Figure 66. World VPX SSD Production Value Market Share by Application (2021-2032)

Figure 67. World VPX SSD Average Price by Application (2021-2032) & (US\$/Unit)

Figure 68. VPX SSD Industry Chain

Figure 69. VPX SSD Procurement Model

Figure 70. VPX SSD Sales Model

Figure 71. VPX SSD Sales Channels, Direct Sales, and Distribution

Figure 72. Methodology

Figure 73. Research Process and Data Source

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