

Global VPX SSD 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 VPX SSD market size was valued at US\$ 310 million in 2025 and is forecast to a readjusted size of US\$ 388 million by 2032 with a CAGR of 3.2% during review period.

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 is a detailed and comprehensive analysis for global VPX SSD 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 VPX SSD market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global VPX SSD market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global VPX SSD market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global VPX SSD market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 VPX SSD

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 VPX SSD 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, 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.

Market Segmentation

VPX SSD 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

3U VPX

6U VPX

Market segment by Interface Type

NVMe

PCIe

Combined Interface

Market segment by Storage Media

SLC

TLC

QLC

Hybrid

Market segment by Application

Military & Defense

Aerospace

Industrial Automation

Data Acquisition

Network & Communications

Other

Major players covered

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

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)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe VPX SSD product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of VPX SSD, with price, sales quantity, revenue, and global market share of VPX SSD from 2021 to 2026.

Chapter 3, the VPX SSD competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the VPX SSD 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 VPX SSD 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 VPX SSD.

Chapter 14 and 15, to describe VPX SSD sales channel, distributors, customers, research findings and conclusion.

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