

Global NVMe-based HPC Storage 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 NVMe-based HPC Storage market size was valued at US\$ 23518 million in 2025 and is forecast to a readjusted size of US\$ 59890 million by 2032 with a CAGR of 14.2% during review period.

NVMe-based HPC Storage refers to a high-performance storage architecture designed for high-performance computing (HPC) environments, which leverages NVMe (Non-Volatile Memory Express) protocols and solid-state storage media to deliver ultra-low latency, high throughput, and massive parallel I/O capabilities. It is typically used in data-intensive workloads such as scientific simulations, AI/ML training, and big data analytics, often integrated with parallel file systems and high-speed interconnects (e.g., InfiniBand or high-speed Ethernet) to maximize system performance and scalability. In 2025, global NVMe-based HPC storage system production reached approximately 127,000 units, with an average global market price of around US\$180,000 per unit. Annual production capacity is 140,000 units. Gross Profit Margin: 25%. The NVMe-based HPC storage industry chain is structured across upstream, midstream, and downstream segments. Upstream focuses on key components such as NVMe SSDs, controllers, high-speed interconnects, and semiconductor materials, supplied by major manufacturers like Samsung, Micron, and Kioxia. Midstream involves system integrators and storage array manufacturers, including Dell, HPE, and Huawei, who assemble these components into high-performance storage systems. Downstream consists of HPC centers, AI training clusters, cloud data centers, and enterprise customers who deploy these systems to accelerate data-intensive workloads. NVMe-based HPC storage represents a critical backbone for modern high-performance computing and AI-driven applications. Its fast data throughput and low latency make it

indispensable for large-scale simulations, deep learning training, and scientific research. I believe the market will continue to expand rapidly as more enterprises and research institutions adopt NVMe solutions, and innovation in storage architectures, such as NVMe-oF and disaggregated storage, will further enhance system efficiency and scalability.

This report is a detailed and comprehensive analysis for global NVMe-based HPC Storage market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Form Factor 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 NVMe-based HPC Storage market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

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

Global NVMe-based HPC Storage market size and forecasts, by Form Factor and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global NVMe-based HPC Storage market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K 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 NVMe-based HPC Storage

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 NVMe-based HPC Storage 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 Dell Technologies, Hewlett Packard Enterprise, NetApp Inc., Pure Storage Inc., IBM Corporation, Hitachi Vantara Corporation, DataDirect Networks (DDN), Huawei Technologies Co., Ltd., Lenovo Group Limited, Inspur Electronic Information Industry Co., Ltd., etc.

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

Market Segmentation

NVMe-based HPC Storage market is split by Form Factor and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Form Factor, 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 Form Factor

NVMe All-Flash Array

NVMe JBOF System

NVMe Storage Server

NVMe Storage Appliance

NVMe Storage Enclosure

Market segment by Architecture

Direct-Attached NVMe Storage

NVMe over Fabrics (NVMe-oF) Storage

Distributed NVMe Storage

Parallel File System NVMe Storage

Market segment by Deployment

On-Premises NVMe HPC Storage

Cloud-based NVMe HPC Storage

Hybrid NVMe Storage

Market segment by Application

Technology & Internet

Academic & Research

Government & National Labs

Financial Services

Others

Major players covered

Dell Technologies

Hewlett Packard Enterprise

NetApp Inc.

Pure Storage Inc.

IBM Corporation

Hitachi Vantara Corporation

DataDirect Networks (DDN)

Huawei Technologies Co., Ltd.

Lenovo Group Limited

Inspur Electronic Information Industry Co., Ltd.

Fujitsu Limited

Sugon Information Industry

H3C Technologies

Unisplendour Corporation

PowerLeader Computer System

MacroSAN Technologies

Beijing Tongyou Data

Sangfor Technologies

XSKY Data Technology

Yangtze Memory Technologies

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 NVMe-based HPC Storage product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of NVMe-based HPC Storage, with price, sales quantity, revenue, and global market share of NVMe-based HPC Storage from 2021 to 2026.

Chapter 3, the NVMe-based HPC Storage competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the NVMe-based HPC Storage 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 Form Factor and by Application, with sales market share and growth rate by Form Factor, 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 NVMe-based HPC Storage market forecast, by regions, by Form Factor, 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 NVMe-based HPC Storage.

Chapter 14 and 15, to describe NVMe-based HPC Storage sales channel, distributors, customers, research findings and conclusion.

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