

Global NVMe Backplane 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 Backplane market size was valued at US\$ 4034 million in 2025 and is forecast to a readjusted size of US\$ 9003 million by 2032 with a CAGR of 12.1% during review period.

An NVMe backplane is a hardware interface board used in servers or storage systems that connects multiple NVMe SSDs (Non-Volatile Memory Express Solid State Drives) to the system through high-speed PCIe lanes. It provides power distribution, signal routing, and physical mounting for SSDs, enabling hot-swapping, high-density storage expansion, and efficient data transmission with low latency. In 2025, global NVMe Backplane production reached approximately 21.19 M units, with an average global market price of around US\$ 185 per unit. Annual production capacity is 26.4 M Units. Gross Profit Margin: 34%. The NVMe Backplane industry sits in the middle of a tightly integrated data center hardware value chain. Upstream, it relies on high-speed PCB materials (such as low-loss laminates), precision connectors, copper alloys, and PCIe signal integrity components like retimers and switches. Midstream is dominated by backplane designers and server/platform manufacturers that integrate these components into U.2, U.3, or EDSFF storage architectures. Downstream demand is driven by hyperscale cloud providers, enterprise data centers, AI/HPC clusters, and telecom edge computing, where NVMe backplanes act as the critical interconnect layer enabling high-density, low-latency storage performance. NVMe backplanes are a “quiet infrastructure layer” that rarely gets visibility but is essential for the AI-driven compute era. Their value is not in standalone branding, but in enabling system-level performance upgrades when moving from SATA/SAS to NVMe architectures. As PCIe generations evolve toward Gen5 and Gen6, the product is becoming more complex, higher in ASP, and more strategically important. In my view, the key opportunity lies in EDSFF

migration and AI storage clusters, where backplane design is increasingly becoming a performance bottleneck and a competitive differentiator for server vendors.

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

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

Global NVMe Backplane market size and forecasts, by Interface Standard and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global NVMe Backplane market shares of main players, shipments in revenue (\$ Million), sales quantity (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 NVMe Backplane

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 Backplane 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 Supermicro, Chenbro Micom, AIC Inc., Inspur, Huawei, Asus, Gigabyte Technology, Asrock Rack, Tyan, Amphenol Communications Solutions, etc.

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

Market Segmentation

NVMe Backplane market is split by Interface Standard and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Interface Standard, 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 Interface Standard

- U.2 NVMe Backplane

- U.3 Tri-Mode Backplane

- EDSFF Backplane

- M.2 Backplane

Market segment by PCIe Generation

- PCIe Gen3 Backplane

- PCIe Gen4 Backplane

- PCIe Gen5 Backplane

Market segment by Drive Bays

4-Bay Backplane

8-Bay Backplane

12-24-Bay Backplane

24+ High-Density Backplane

Market segment by Application

Cloud Data Centers Industry

Enterprise IT & Corporate Data Centers

Artificial Intelligence & HPC Industry

Internet & Media Platforms

Telecommunications Industry

Others

Major players covered

Supermicro

Chenbro Micom

AIC Inc.

Inspur

Huawei

Asus

Gigabyte Technology

Asrock Rack

Tyan

Amphenol Communications Solutions

Molex

TE Connectivity

Samtec

Broadcom

Microchip Technology

Intel

Marvell

Advantech

MiTAC Computing

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 Backplane product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the NVMe Backplane 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 Interface Standard and by Application, with sales market share and growth rate by Interface Standard, 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 Backplane market forecast, by regions, by Interface Standard, 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 Backplane.

Chapter 14 and 15, to describe NVMe Backplane sales channel, distributors, customers, research findings and conclusion.

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