

# Global NVMe Backplane Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global NVMe Backplane market size is expected to reach \$ 9003 million by 2032, rising at a market growth of 12.1% CAGR during the forecast period (2026-2032).

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 studies the global NVMe Backplane production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global NVMe Backplane total production and demand, 2021-2032, (Units)

Global NVMe Backplane total production value, 2021-2032, (USD Million)

Global NVMe Backplane production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global NVMe Backplane consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: NVMe Backplane domestic production, consumption, key domestic manufacturers and share

Global NVMe Backplane production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global NVMe Backplane production by Interface Standard, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global NVMe Backplane production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global NVMe Backplane 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World NVMe Backplane market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Interface Standard, 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 NVMe Backplane Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global NVMe Backplane Market, Segmentation by Interface Standard:

U.2 NVMe Backplane

U.3 Tri-Mode Backplane

EDSFF Backplane

M.2 Backplane

#### Global NVMe Backplane Market, Segmentation by PCIe Generation:

PCIe Gen3 Backplane

PCIe Gen4 Backplane

PCIe Gen5 Backplane

#### Global NVMe Backplane Market, Segmentation by Drive Bays:

4-Bay Backplane

8-Bay Backplane

12-24-Bay Backplane

24+ High-Density Backplane

#### Global NVMe Backplane Market, Segmentation by Application:

Cloud Data Centers Industry

Enterprise IT & Corporate Data Centers

Artificial Intelligence & HPC Industry

Internet & Media Platforms

Telecommunications Industry

Others

#### Companies Profiled:

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

#### Key Questions Answered:

1. How big is the global NVMe Backplane market?
2. What is the demand of the global NVMe Backplane market?
3. What is the year over year growth of the global NVMe Backplane market?

4. What is the production and production value of the global NVMe Backplane market?
5. Who are the key producers in the global NVMe Backplane market?
6. What are the growth factors driving the market demand?

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