

Global NVMe SSD Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global NVMe SSD market size is expected to reach \$ 90028 million by 2032, rising at a market growth of 14.2% CAGR during the forecast period (2026-2032).

NVMe SSD (Non-Volatile Memory Express Solid State Drive) is a type of solid-state storage device that connects via the PCIe (Peripheral Component Interconnect Express) interface and uses the NVMe protocol. It is specifically optimized for non-volatile memory such as NAND flash, delivering significantly lower latency, higher parallelism, and faster data transfer speeds compared to traditional SATA/AHCI-based SSDs. NVMe SSDs are widely used in high-performance computing, data centers, and premium consumer devices. In 2025, global NVMe SSD production reached approximately 556.82 M units, with an average global market price of around US\$ 62 per unit. Annual production capacity is 612 M units. Gross Profit Margin: 38.6%. The NVMe SSD industry chain is highly vertically integrated and technology-driven. Upstream consists of NAND flash memory manufacturers, controller IC designers, DRAM suppliers, and wafer fabrication equipment providers. Midstream is dominated by SSD module designers and assemblers, who integrate NAND, controllers, firmware, and thermal solutions into final products. Downstream demand comes primarily from data centers, AI servers, enterprise storage systems, and high-performance consumer electronics such as gaming PCs and workstations. The industry is tightly controlled by a few key NAND suppliers, which strongly influences pricing and supply cycles. NVMe SSDs are transitioning from a consumer-driven upgrade component to a core infrastructure component for AI and cloud computing. Future growth will be increasingly shaped by enterprise demand rather than PC replacement cycles. The key competitive advantage is shifting from simple read/write speed to system-level optimization, including power efficiency, endurance, and AI workload handling. Companies that can secure NAND supply and develop advanced controller + firmware integration will

capture disproportionate value in the next cycle.

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

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

Highlights and key features of the study

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

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

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

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

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

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

Global NVMe SSD production by PCIe Gen, production, value, CAGR, 2021-2032, (USD Million) & (Units)

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

This report profiles key players in the global NVMe 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 Samsung Electronics, SK Hynix, Solidigm, Kioxia Holdings, Western Digital, Micron Technology, Seagate Technology, Kingston Technology, ADATA Technology, Transcend Information, 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 SSD 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 PCIe Gen, 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 SSD Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global NVMe SSD Market, Segmentation by PCIe Gen:

PCIe 3.0 NVMe SSD

PCIe 4.0 NVMe SSD

PCIe 5.0 NVMe SSD

Global NVMe SSD Market, Segmentation by Form Factor:

M.2 NVMe SSD

U.2 NVMe SSD

Add-in Card (AIC) NVMe SSD

EDSFF NVMe SSD

Global NVMe SSD Market, Segmentation by Capacity:

? 512GB NVMe SSD

1TB NVMe SSD

2TB NVMe SSD

? 4TB NVMe SSD

Global NVMe SSD Market, Segmentation by Application:

Consumer

Enterprise

Industrial

Others

Companies Profiled:

Samsung Electronics

SK Hynix

Solidigm

Kioxia Holdings

Western Digital

Micron Technology

Seagate Technology

Kingston Technology

ADATA Technology

Transcend Information

Silicon Power

TeamGroup

ATP Electronics

PNY Technologies

Innodisk

Memblaze

DapuStor

Biwin Storage Technology

Yangtze Memory Technologies

Longsys Electronics

Key Questions Answered:

1. How big is the global NVMe SSD market?
2. What is the demand of the global NVMe SSD market?
3. What is the year over year growth of the global NVMe SSD market?
4. What is the production and production value of the global NVMe SSD market?

5. Who are the key producers in the global NVMe SSD market?
6. What are the growth factors driving the market demand?

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