

Global Pcie5.0 Solid-State Drive (SSD) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Pcie5.0 Solid-State Drive (SSD) market size is expected to reach \$ 6944 million by 2032, rising at a market growth of 17.9% CAGR during the forecast period (2026-2032).

In 2025, global Pcie5.0 Solid-State Drive production reached approximately 7 million units, with an average global market price of around US\$300 per unit.

A PCIe 5.0 solid-state drive (PCIe 5.0 SSD) is a high-performance storage device based on the PCI Express 5.0 interface and NVMe protocol, utilizing next-generation controllers and 3D NAND flash to deliver ultra-fast data transfer and low latency. With theoretical bandwidth doubling compared to PCIe 4.0, it can achieve sequential speeds exceeding 10GB/s. Typically available in the M.2 2280 form factor, PCIe 5.0 SSDs are targeted at high-end PCs, gaming systems, professional content creation, and certain enterprise applications, significantly enhancing performance in large file transfers, real-time rendering, AI workloads, and other high-demand computing tasks.

The PCIe 5.0 SSD industry chain consists of upstream suppliers of NAND flash, controller ICs, and DRAM cache, midstream SSD manufacturers and brands, and downstream high-performance computing applications. Upstream includes advanced 3D NAND, PCIe 5.0 controllers, and high-speed DRAM, with major players such as Samsung Electronics, Micron Technology, SK hynix, along with controller providers like Phison Electronics and Silicon Motion. The midstream includes SSD brands such as Western Digital, Seagate, Kingston Technology, and ADATA. Downstream applications include high-end PC OEMs like Dell, HP, and Lenovo, as well as gamers, content creators, and AI computing users. The industry is characterized by upstream components defining performance and cost, midstream integration enabling

differentiation, and downstream demand for high-performance computing driving innovation.

The PCIe 5.0 SSD market is currently in the early adoption stage and represents a high-end segment. As next-generation CPUs and motherboards increasingly support PCIe 5.0, and as demand grows from gaming, AI computing, and high-resolution content creation, these drives are gradually gaining market acceptance. At the same time, challenges related to power consumption and heat generation are driving innovation in thermal management and product design. However, the market still faces barriers such as high cost, limited application scenarios, and relatively low perceived performance gains for average users. Additionally, PCIe 4.0 SSDs remain competitive in terms of price-performance, posing substitution pressure. Overall, the market is characterized by premium positioning, performance-driven adoption, and gradual penetration.

This report studies the global Pcie5.0 Solid-State Drive (SSD) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Pcie5.0 Solid-State Drive (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 Pcie5.0 Solid-State Drive (SSD) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Pcie5.0 Solid-State Drive (SSD) total production and demand, 2021-2032, (K Units)

Global Pcie5.0 Solid-State Drive (SSD) total production value, 2021-2032, (USD Million)

Global Pcie5.0 Solid-State Drive (SSD) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Pcie5.0 Solid-State Drive (SSD) consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Pcie5.0 Solid-State Drive (SSD) domestic production, consumption, key domestic manufacturers and share

Global Pcie5.0 Solid-State Drive (SSD) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Pcie5.0 Solid-State Drive (SSD) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Pcie5.0 Solid-State Drive (SSD) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Pcie5.0 Solid-State Drive (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 Western Digital, Seagate, Samsung, Corsair, Sabrent, Gigabyte, Kingston, ASUS, ADATA, YMTC, 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 Pcie5.0 Solid-State Drive (SSD) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, 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 Pcie5.0 Solid-State Drive (SSD) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Pcie5.0 Solid-State Drive (SSD) Market, Segmentation by Type:

M.2 Interface

PCIe 5.0 x4

Others

Global Pcie5.0 Solid-State Drive (SSD) Market, Segmentation by Sequential Read Speed:

10000 MB/s

12000 MB/s

13000 MB/s

14000 MB/s

Others

Global Pcie5.0 Solid-State Drive (SSD) Market, Segmentation by Capacity:

1TB

2TB

4TB

Others

Global Pcie5.0 Solid-State Drive (SSD) Market, Segmentation by Application:

Game Entertainment

Data Storage

Others

Companies Profiled:

Western Digital

Seagate

Samsung

Corsair

Sabrent

Gigabyte

Kingston

ASUS

ADATA

YMTC

Key Questions Answered:

1. How big is the global Pcie5.0 Solid-State Drive (SSD) market?
2. What is the demand of the global Pcie5.0 Solid-State Drive (SSD) market?
3. What is the year over year growth of the global Pcie5.0 Solid-State Drive (SSD) market?
4. What is the production and production value of the global Pcie5.0 Solid-State Drive (SSD) market?
5. Who are the key producers in the global Pcie5.0 Solid-State Drive (SSD) market?
6. What are the growth factors driving the market demand?

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