

# Global Data Center SSDs Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Data Center SSDs market size is expected to reach \$ 123 million by 2032, rising at a market growth of 10.2% CAGR during the forecast period (2026-2032).

Data Center SSDs (Solid State Drives) are enterprise-grade storage devices designed specifically for use in data centers, providing high-speed, low-latency, and high-reliability data storage for servers and cloud infrastructure. Compared with consumer SSDs, data center SSDs offer higher endurance, better thermal stability, advanced error correction, power-loss protection, and support for protocols such as NVMe and SAS, enabling them to handle intensive workloads including AI training, big data analytics, virtualization, and high-performance computing. In 2025, global Data Center SSDs production reached approximately 21 k units with an average global market price of around 2500 USD/unit. The production capacity for Data Center SSDs in 2025 was approximately 25 units. The typical gross profit margin for Data Center SSDs is between 20% and 40%.

The Data Center SSDs market is driven by the rapid growth of cloud computing, AI workloads, big data analytics, and hyperscale data centers, which require high-performance, low-latency, and reliable storage solutions. Compared with traditional HDDs, data center SSDs offer significantly higher IOPS, faster read/write speeds, lower power consumption, and better durability, making them essential for mission-critical applications such as AI training, databases, virtualization, and real-time analytics. The market is supported by the adoption of NVMe interfaces, PCIe Gen4/Gen5 standards, and the increasing deployment of all-flash data centers, with North America and Asia-Pacific as the leading regions and key trends focusing on higher capacity, improved endurance, and cost optimization through QLC NAND and advanced controllers.

This report studies the global Data Center SSDs production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

Global Data Center SSDs total production and demand, 2021-2032, (K Units)

Global Data Center SSDs total production value, 2021-2032, (USD Million)

Global Data Center SSDs production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Data Center SSDs consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Data Center SSDs domestic production, consumption, key domestic manufacturers and share

Global Data Center SSDs production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Data Center SSDs production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Data Center SSDs production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Data Center SSDs 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 Micron, SK Hynix, Samsung Electronics, Kioxia, Kingston Technology, SanDisk, Western Digital, ADATA, Phison Electronics, HUAWEI, 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 Data Center SSDs 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 Data Center SSDs Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Data Center SSDs Market, Segmentation by Type:

SATA SSDs

SAS SSDs

NVMe SSDs

#### Global Data Center SSDs Market, Segmentation by Storage Media:

SLC

MLC

TLC

QLC

PLC

#### Global Data Center SSDs Market, Segmentation by System Architecture:

Direct Attached

Disaggregated

#### Global Data Center SSDs Market, Segmentation by Application:

Cloud Data Centers

AI Data Centers/AI Servers

High-Performance Computing (HPC)

Enterprise Data Centers

Others

#### Companies Profiled:

Micron

SK Hynix

Samsung Electronics

Kioxia

Kingston Technology

SanDisk

Western Digital

AData

Phison Electronics

HUAWEI

**Key Questions Answered:**

1. How big is the global Data Center SSDs market?
2. What is the demand of the global Data Center SSDs market?
3. What is the year over year growth of the global Data Center SSDs market?
4. What is the production and production value of the global Data Center SSDs market?
5. Who are the key producers in the global Data Center SSDs market?
6. What are the growth factors driving the market demand?

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