

Global Data Center SSDs Market Growth 2026-2032

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Abstracts

The global Data Center SSDs market size is predicted to grow from US\$ 51.36 million in 2025 to US\$ 121 million in 2032; it is expected to grow at a CAGR of 10.8% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "Data Center SSDs Industry

Forecast” looks at past sales and reviews total world Data Center SSDs sales in 2025, providing a comprehensive analysis by region and market sector of projected Data Center SSDs sales for 2026 through 2032. With Data Center SSDs sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Data Center SSDs industry.

This Insight Report provides a comprehensive analysis of the global Data Center SSDs landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Data Center SSDs portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Data Center SSDs market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Data Center SSDs and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Data Center SSDs.

This report presents a comprehensive overview, market shares, and growth opportunities of Data Center SSDs market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

SATA SSDs

SAS SSDs

NVMe SSDs

Segmentation by Storage Media:

SLC

MLC

TLC

QLC

PLC

Segmentation by System Architecture:

Direct Attached

Disaggregated

Segmentation by Application:

Cloud Data Centers

AI Data Centers/AI Servers

High-Performance Computing (HPC)

Enterprise Data Centers

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Micron

SK Hynix

Samsung Electronics

Kioxia

Kingston Technology

SanDisk

Western Digital

ADATA

Phison Electronics

HUAWEI

Key Questions Addressed in this Report

What is the 10-year outlook for the global Data Center SSDs market?

What factors are driving Data Center SSDs market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Data Center SSDs market opportunities vary by end market size?

How does Data Center SSDs break out by Type, by Application?

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