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Global AI Storage SSD Market Growth 2026-2032

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Abstracts

The global AI Storage SSD market size is predicted to grow from US$ 174 million in 2025 to US$ 279 million in 2032; it is expected to grow at a CAGR of 7.2% from 2026 to 2032.

In 2024, global AI Storage SSD production reached approximately 65.71 K units, with an average global market price of around US$ 2500 per unit. An AI Storage SSD is a solid-state drive specifically optimized to meet the high-performance storage requirements of artificial intelligence workloads, such as machine learning training, deep learning inference, and large-scale data analytics. Unlike traditional SSDs, AI Storage SSDs are designed with faster read/write speeds, higher endurance, low latency, and optimized IOPS (input/output operations per second) to handle massive datasets and frequent access patterns. They often support advanced features like NVMe protocols, PCIe Gen4/Gen5 interfaces, and large capacity options, ensuring seamless data flow between CPUs, GPUs, and accelerators in AI servers and data centers. These SSDs play a critical role in reducing data bottlenecks, accelerating AI model development, and improving overall system efficiency in high-performance computing environments.

United States market for AI Storage SSD is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for AI Storage SSD is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for AI Storage SSD is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key AI Storage SSD players cover Micron, SK Hynix, Samsung Electronics, Kioxia, SanDisk, etc. In terms of revenue, the global two largest companies occupied for

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a share nearly % in 2025.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “AI Storage SSD Industry Forecast” looks at past sales and reviews total world AI Storage SSD sales in 2025, providing a comprehensive analysis by region and market sector of projected AI Storage SSD sales for 2026 through 2032. With AI Storage SSD sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world AI Storage SSD industry.

This Insight Report provides a comprehensive analysis of the global AI Storage SSD 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 AI Storage SSD portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global AI Storage SSD market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI Storage SSD 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 AI Storage SSD.

This report presents a comprehensive overview, market shares, and growth opportunities of AI Storage SSD market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

PCIe 5.0 SSD

PCIe 6.0 SSD

Other

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Segmentation by Application:

- AI/ML Training and Inference
- Cloud Computing
- Big Data Analytics
- Fintech
- Autonomous Driving
- Healthcare
- Other

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea

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- 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

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Samsung Electronics

Kioxia

SanDisk

Kingston Technology

Western Digital

ADATA

Phison Electronics

HUAWEI

Key Questions Addressed in this Report

What is the 10-year outlook for the global AI Storage SSD market?

What factors are driving AI Storage SSD market growth, globally and by region?

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

How do AI Storage SSD market opportunities vary by end market size?

How does AI Storage SSD break out by Type, by Application?

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