

# **Data Center SSD Market Size, Share & Trends Analysis Report By Form Factor (2.5-inch (U.2/U.3, M.2, PCIe Add-in Card, EDSFF (E1.S / E1.L / E3)), By Interface, By NAND Technology, By Storage Capacity, By End User, By Region, And Segment Forecasts, 2026 - 2033**

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## **Abstracts**

The global data center SSD market size was estimated at USD 18.50 billion in 2025 and is projected to reach USD 66.26 billion by 2033, growing at a CAGR of 17.4% from 2026 to 2033 due to the rapid expansion of data generation and processing requirements across industries. The continued growth of cloud computing serves as the key catalyst, as hyperscale cloud providers consistently invest in new data center facilities and upgrade their storage architectures to support artificial intelligence (AI), advanced analytics, and other high-performance workloads.

The growth of edge computing is significantly accelerating the adoption of SSDs in modern data center architectures. Edge data centers operate in space-constrained and distributed environments, where compact form factors, low power consumption, and high reliability are essential. SSDs meet these requirements by offering faster data access, lower latency, and better durability compared to traditional HDDs. Furthermore, the rapid expansion of 5G networks and IoT ecosystems is increasing the volume of real-time data generated at the edge, necessitating high-performance local storage. As a result, organizations are deploying SSD-based storage in edge nodes to support real-time analytics, autonomous systems, and latency-sensitive applications efficiently.

Advancements in NAND technology, particularly the development of higher-layer 3D NAND and improved QLC architectures, are significantly enhancing SSD capacity and

cost efficiency. Higher-layer stacking increases storage density per chip, allowing manufacturers to deliver larger-capacity drives at a lower cost per terabyte. At the same time, improvements in QLC endurance, controllers, and error correction technologies have made these drives more viable for enterprise and hyperscale environments. As a result, SSDs are increasingly being deployed across multiple storage tiers, including high-performance hot data, frequently accessed warm data, and large-capacity bulk storage use cases.

AI-driven infrastructure is expected to be a major transformative force in the Data Center SSD market. As AI training and inference workloads rely on massive and rapidly expanding datasets, there is a growing need for high-performance, low-latency storage systems. SSD clusters play a critical role in AI data pipelines by enabling faster data ingestion, processing, and retrieval. This surge in AI adoption will not only increase the overall volume demand for enterprise SSDs but also push vendors to develop drives with higher throughput, endurance, and advanced NVMe capabilities to meet evolving performance requirements.

India's data center sector is experiencing a dramatic boom driven by exponential growth in digital data and artificial intelligence (AI) adoption. According to a CBRE report, investment commitments in India's data center industry are projected to surpass USD 100 billion by 2027, reflecting both domestic and international interest in building robust digital infrastructure. This surge underscores the importance of AI, cloud computing, and edge processing in driving demand for storage, compute, and PCIe Add-in Card capacities.

## Global Data Center SSD Market Segmentation

This report forecasts revenue growth at the global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the data center SSD market report based on form factor, interface, NAND technology, data center type, end user, and region.

Form Factor Outlook (Revenue, USD Billion, 2021 - 2033)

2.5-inch (U.2/U.3)

M.2

PCIe Add-in Card

EDSFF (E1.S / E1.L / E3)

Interface Outlook (Revenue, USD Billion, 2021 - 2033)

PCIe (NVMe)

SAS (Serial Attached SCSI)

SATA

NAND Technology Outlook (Revenue, USD Billion, 2021 - 2033)

SLC

MLC

TLC

QLC

Storage Capacity Outlook (Revenue, USD Billion, 2021 - 2033)

? 1 TB

1-2 TB

2-4 TB

? 4 TB

End User Outlook (Revenue, USD Billion, 2021 - 2033)

Hyperscale Cloud Providers

Colocation Data Centers

Enterprise Data Centers

Edge Data Centers

Regional Outlook (Revenue, USD Billion, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Asia Pacific

China

India

Japan

South Korea

Australia

Latin America

Brazil

Middle East & Africa

UAE

Saudi Arabia

South Africa

**This report can be delivered to the clients within 3 Business Days**

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