

Global Next-Generation Data Storage Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GA99CC2ABEF0EN.html>

Date: September 2026

Pages: 172

Price: US\$ 4,480.00 (Single User License)

ID: GA99CC2ABEF0EN

Abstracts

The global Next-Generation Data Storage market size is expected to reach \$ 9949 million by 2032, rising at a market growth of 9.1% CAGR during the forecast period (2026-2032).

In 2025, global Next-Generation Data Storage production reached approximately 16.375 million units, with an average global market price of around USD 320 per unit. The gross profit margin of major companies in the industry was approximately 30%–55%. In 2025, global production capacity of Next-Generation Data Storage was approximately 21.5 million units. Next-Generation Data Storage refers to advanced storage technologies and products designed to provide higher capacity, faster access, improved energy efficiency, and greater data reliability than conventional storage solutions. Products mainly include advanced solid-state storage systems, emerging memory-based storage devices, high-density storage solutions, and new storage architectures. This market excludes conventional hard disk drives, basic storage media, general-purpose servers, and cloud storage services. The industrial chain of Next-Generation Data Storage includes upstream semiconductor materials, memory chips, storage controllers, electronic components, and manufacturing equipment; midstream covers storage device design, chip integration, firmware development, system assembly, performance testing, and quality control; downstream applications mainly include data centers, enterprise IT systems, artificial intelligence infrastructure, cloud computing, high-performance computing, and industrial data management.

Next-generation data storage refers to emerging and advanced storage technologies designed to overcome the capacity, performance, latency, energy efficiency, durability, and scalability limitations of conventional data storage systems. The market encompasses innovative storage media, memory technologies, architectures, and data

management approaches intended for increasingly data-intensive computing environments. Rapid growth in artificial intelligence, cloud computing, high-performance computing, big data analytics, autonomous systems, and connected devices is generating significantly larger and more complex datasets, strengthening demand for storage infrastructure capable of delivering higher throughput and more efficient data access. A major development trend is the closer integration of storage and computing, supported by advances in persistent memory, computational storage, software-defined storage, distributed architectures, and intelligent data management. At the same time, rising power consumption in data centers is increasing emphasis on storage density and energy efficiency, encouraging development of technologies that can reduce physical footprint and power requirements while maintaining performance. Artificial intelligence workloads represent an important market opportunity because model training and inference require rapid access to large datasets and increasingly place pressure on conventional storage architectures. Additional opportunities are emerging in edge computing, scientific research, enterprise data centers, archival storage, and applications requiring long-term preservation of rapidly expanding datasets. The transition toward hybrid and distributed infrastructure is also creating demand for storage solutions that can move and manage data efficiently across different computing environments. However, commercialization of next-generation technologies can be constrained by high development and deployment costs, compatibility with existing hardware and software ecosystems, uncertain technology standards, manufacturing complexity, and differences in maturity among competing approaches. Reliability, data security, endurance, and total cost of ownership remain important purchasing considerations. As data infrastructure evolves, market development is expected to increasingly favor solutions that combine higher capacity and performance with lower energy consumption, improved scalability, and seamless integration into existing computing environments.

Report Scope

This report studies the global Next-Generation Data Storage demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Next-Generation Data Storage, 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 Next-Generation Data Storage that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Next-Generation Data Storage total market, 2021-2032, (USD Million)

Global Next-Generation Data Storage total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Next-Generation Data Storage total market, key domestic companies, and share, (USD Million)

Global Next-Generation Data Storage revenue by player, revenue and market share 2021-2026, (USD Million)

Global Next-Generation Data Storage total market by Type, CAGR, 2021-2032, (USD Million)

Global Next-Generation Data Storage total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Next-Generation Data Storage market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Dell Technologies Inc., NetApp, Inc., Pure Storage, Inc., IBM Corporation, Hewlett Packard Enterprise Company, WEKA.IO Ltd., VDURA, Inc., Quantum Corporation, Cerabyte GmbH, SPhotonix Ltd., 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 Next-Generation Data Storage market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), by player, by regions, 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 Next-Generation Data Storage Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Next-Generation Data Storage Market, Segmentation by Type:

Advanced Solid-state Storage

Optical and Holographic Storage

Emerging Non-volatile Memory Storage

Global Next-Generation Data Storage Market, Segmentation by Storage Architecture:

Direct-attached Storage

Networked and Distributed Storage

Computational and Software-defined Storage

Global Next-Generation Data Storage Market, Segmentation by System Storage Capacity:

Low-capacity(<100 TB)

Medium-capacity(>100 TB–1 PB)

High-capacity(>1 PB)

Global Next-Generation Data Storage Market, Segmentation by Application:

Cloud and Hyperscale Data Centers

Enterprise and Financial Institutions

Research, Media and Government Organizations

Other

Companies Profiled:

Dell Technologies Inc.

NetApp, Inc.

Pure Storage, Inc.

IBM Corporation

Hewlett Packard Enterprise Company

WEKA.IO Ltd.

VDURA, Inc.

Quantum Corporation

Cerabyte GmbH

SPhotonix Ltd.

Atlas Data Storage, Inc.

Mimulus, Inc.

Western Digital Corporation

Micron Technology, Inc.

Kioxia Holdings Corporation

Fujifilm Holdings Corporation

Samsung Electronics Co., Ltd.

SK hynix Inc.

Huawei Technologies Co., Ltd.

Inspur Electronic Information Industry Co., Ltd.

Sugon Information Industry Co., Ltd.

Yangtze Memory Technologies Co., Ltd.

DapuStor Corporation

Shannon Systems Ltd.

Beijing Memblaze Technology Co., Ltd.

H3C Technologies Co., Ltd.

Key Questions Answered

1. How big is the global Next-Generation Data Storage market?
2. What is the demand of the global Next-Generation Data Storage market?
3. What is the year over year growth of the global Next-Generation Data Storage market?
4. What is the total value of the global Next-Generation Data Storage market?
5. Who are the Major Players in the global Next-Generation Data Storage market?
6. What are the growth factors driving the market demand?

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