## Report Information

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# All-Flash Array Market Research Report - Industry Forecast till 2027

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**Description:**

## All-Flash Array Market Overview:

The all-flash array market is expected to grow from USD 5.78 billion in 2018 to USD 16.21 billion by 2027, at a CAGR of 20.56%, during the forecast period. The All-Flash Array Storage systems are intensively utilized for features such as Block Storage, higher performance, easier accessibility, inbuilt RAID technology, and other advanced features which make the industries access their data more readily. The archived data were often used during the loss of data, otherwise remain unused, traditionally. The backed up data were also utilized for analyzing the performance of the industry which helps in developing the industry further.

The absence of motors, moving parts enables the storage system to operate at a very low electrical supply and thereby reduce the operational costs. The block storage technology helps the organization to access the data, modify them, save them in real-time easily without affecting the data stored for the client verification. Additionally, the data compression techniques and deduplication technique which helps in data storage optimization without disturbing the client operations. The deduplication process in the All-flash Array storage happens as an inline process that doesn't affect the overall performance or the client operations. Also, the deduplication process runs as default and rewrites the date while the data is being written into the system. Such factors have increased the adoption rates in recent times.

## COVID 19 Analysis:

The industries have been reducing their production rates due to COVID 19; similarly, they are also reducing their investments in various aspects such as reducing manpower, reducing the raw materials, stocks, and so on. The industries relying on data generation have reduced their investments regarding external storage. The work-from-home trends in several industries have increased the demand for cloud storage. Such factors have impacted the All-Flash Array market growth.

The manufacturers and suppliers of source materials and SSD suppliers are majorly from Wuhan. Since the region has been severely impacted by the COVID 19, there was a huge disruption in the manufacturing process.

## All-Flash Array Market Dynamics:

### Market Drivers:

The increasing workloads of the organizations are considered as the primary driving factor for the overall growth of the All-Flash Array industry. The data storage optimization and thin provisioning of data and similar other features of the All-flash array storage solution are driving the All-flash Array market growth.

The increasing number of data centers in several countries, the increasing number of Oil and gas industries, increasing number of IT sectors in countries such as North America are driving the overall growth of the All-Flash Array industry. Recently, the US has announced its investment of USD 1928 million for the development of cloud security solutions. Such factors are the primary growth stimulating factors for the All-Flash Array industry.

### Market Opportunities:

Block storage has been increasingly utilized in several industrial verticals, in databases, transactions, and other financial organizations, since they demand real-time data modification. The on-demand block allocation and other techniques deployed in the All-Flash array and other features are expected to present lucrative opportunities for the overall growth of the All-Flash Array industry.

The financial firms retail, commercial firms, and IT industries, are increasingly changing their infrastructure to please the customers or clients. Especially, the financial services are facing challenges while handling the changing scenarios and the requirement of higher service levels, and the requirement of serving a huge number of customers. Hence the requirement for the read and write processes has been increased in these verticals lately. Such factors have increased the All-Flash array market demand.

### Market Restraints:

The issues related to the performance and drive failures that arise when the industry shifts from disk drives to All-Flash array storage are restraining the overall growth of the All-Flash Array market growth.

The costs involved in installing the All-flash array storage system require about USD 200,000 for the installation, the rising upfront costs are deterring small enterprises to adopt the storage systems. On the other hand, even after

deploying the All-flash array storage system, they cannot be personalized for small and medium-sized organizations. Such factors are restraining the overall growth of the All-Flash array industry.

### Market Challenges:

The up-gradation from the disks to All-flash array storage systems can create some challenges, since the code created based on the characteristics of the disks can create latencies, system wear, and other issues when they are run in the flash array.

Data managers and data scientists still face issues with the All-flash array storage systems because of the expensive to install and then the changing storage environment of the industry, changing objectives of the industry, financial budgets are all considered as the major challenges in deploying the All-flash Array storage systems.

### Cumulative Growth Analysis:

The requirement for data computing and other data managing services is rapidly increasing all over the world. The All-Flash Array market value was at USD 5.78 billion in the year 2018 and is expected to surpass the market value of USD 16.21 billion by the year 2024 while registering a CAGR of 24.3%. The All-Flash Array market value is expected to rise at a fast pace due to the attractive features that significantly reduce operation costs and overall performance. The block allocation techniques have been upgraded with the aid of an All-flash array storage system, unlike the traditional block allocation. Traditionally, the blocks were assigned even before the data were generated assuming that they would require such capacity. The All-flash Array storage allocates the blocks based on demand thereby eliminating the white space and increasing the utilization rates. The utilization rates can go as low as 10% in the traditional block allocation methods, which affects the overall performance.

### Value Chain Analysis:

Speed and performance are the primary advantages of the All-flash Array storage. The flash media are physically smaller when compared with the hard drives, requiring lesser space in the rack count. On the other hand, the All-flash Array uses lesser power as they don’t require motors to spin. As there is no motor, there is a lesser requirement for the colling, and little electricity is required for its operation. Reduction in the usage of electricity cuts down the costs.

Other attractive features of the All-flash array storage are considered as the primary driving factors for the All-flash Array market growth. For instance, the industries such as finance, commercial, retail generate data and require efficient storage and storage optimization to reduce the operation costs. The features of All-Flash Array storage include techniques such as data compression, and its two primary types namely Lossless compression and Lossy compression are deployed based on the requirement of the organization.

### All-Flash Array Market Segment Overview:

### All-Flash Array Industry Outlook:

- Enterprise
- Government
- Cloud
- Telecomm

### All-Flash Array Storage Architecture/Access Pattern Outlook:

- File
- Object
- Block

### All-Flash Array Flash Media Outlook:

- Custom Flash Module (CFM)
- Solid-State Drive (SSD)

### Regional Analysis:

Asia-pacific is expected to lead the market value in the forecast period. In recent years, Asia Pacific has increased the number of automated industries in different industry verticals including warehouses, textile industries, e-commerce, and so on. Such factors present lucrative opportunities for the all-flash array market growth. On the other hand, the rising number of data centers in Asia-pacific countries which require data computing, processing, and storing procedures also increases the overall growth of the All-flash array industry. The availability of the raw materials required for the production has also increased the All-flash array market growth in Asia-pacific countries.

Especially India is focusing on developing their industrial sectors such as healthcare, insurance, telecommunications, and other industrial verticals are focused on improving their productivity. Attractive features of the All-flash array such as accelerated application performance which is at the rate of 20 times more than HDD technology increase the production activity in these industries. The customers can easily access data and the IT staff could easily focus on strategic business plans.

### All-Flash Array Market Key Player & Competitive Landscape:

- Dell Technologies (US)
- Hewlett Packard Enterprise (US)
- NetApp, Inc. (US)
- Pure Storage (US)
- IBM Corporation (US)
- Huawei Technologies Co. Ltd (China)
- Western Digital Corporation (US)
- Hitachi, Ltd (Japan)
- Kaminario (US)
- Micron Technology, Inc. (US)
- Oracle Corporation (US)
- Cisco Systems, Inc. (US)
- E8 Storage (US)
- Violin Systems (US)
- Fujitsu Ltd (Japan)
- Vexata Inc. (US)

## All-Flash Array Industry Developments:

**Dell Technologies:**

- November 2023, Launched the PowerStore X series, a new line of NVMe-based AFAs that offer improved performance and efficiency.
- July 2023, Announced a partnership with NVIDIA to offer Dell EMC PowerEdge servers and PowerStore storage optimized for AI and HPC workloads.

**Hewlett Packard Enterprise (HPE):**

- October 2023, Enhanced its Nimble Storage dHCI offering with new features and integration with HPE Primera AFA.
- July 2023, Expanded its HPE Alletra AFA portfolio with new models offering higher performance and capacity.

## Report Overview:

This report has covered:

- Market overview
- COVID 19 Analysis
- Market dynamics
- Cumulative growth analysis
- Value chain analysis
- Segment overview
- Regional analysis
- Competitive landscape
- Recent developments

**Table of Content:**

Contents
**TABLE OF CONTENTS**
**1 Executive Summary**
1.1 Market Attractiveness Analysis
1.2 Global All-Flash Array Market, by Storage Pattern
1.3 Global All-Flash Array Market, by Flash Media
1.4 Global All-Flash Array Market, by End User
1.5 Global All-Flash Array Market, by Region
**2 Scope of the Report**

2.1 Market Definition
2.2 Scope of the Study
2.3 Markets Structure
2.4 Key Buying Criteria
2.5 Macro Factor Indicator Analysis
**3 Market Research Methodology**
3.1 Research Process
3.2 Secondary Research
3.3 Primary Research
3.4 Forecast Model
3.5 List of Assumptions
**4 Market Insights**
**5 Market Dynamics**
5.1 Introduction
5.2 Drivers
5.3 Restraints
5.4 Opportunities
5.5 Challenges
5.6 Technological Trends
5.7 Regulatory Landscape/Standards
**6 Market Factor Analysis**
6.1 Supply/Value Chain Analysis
6.1.1 R&D
6.1.2 Manufacturing
6.1.3 Distribution & Sales
6.1.4 Post-Sales Monitoring
6.2 Porter's Five Forces Model
6.2.1 Threat of New Entrants
6.2.2 Bargaining Power of Suppliers
6.2.3 Bargaining Power of Buyers
6.2.4 Threat of Substitutes
6.2.5 Intensity of Rivalry
**7. Global All-Flash Array Market, by Storage Pattern**
7.1 Introduction
7.2 File
7.2.1 Market Estimates & Forecast, 2020–2027
7.2.2 Market Estimates & Forecast, by Region, 2020–2027
7.3 Object
7.3.1 Market Estimates & Forecast, 2020–2027
7.3.2 Market Estimates & Forecast, by Region, 2020–2027
7.4 Block
7.4.1 Market Estimates & Forecast, 2020–2027
7.4.2 Market Estimates & Forecast, by Region, 2020–2027
**8. Global All-Flash Array Market, by Flash Media**
8.1 Introduction
8.2 Custom Flash Modules
8.2.1 Market Estimates & Forecast, 2020–2027
8.2.2 Market Estimates & Forecast, by Region, 2020–2027
8.3 Solid-State Drives
8.3.1 Market Estimates & Forecast, 2020–2027
8.3.2 Market Estimates & Forecast, by Region, 2020–2027
**9. Global All-Flash Array Market, by End User**
9.1 Introduction
9.2 BFSI
9.2.1 Market Estimates & Forecast, 2020–2027
9.2.2 Market Estimates & Forecast, by Region, 2020–2027
9.3 Healthcare
9.3.1 Market Estimates & Forecast, 2020–2027
9.3.2 Market Estimates & Forecast, by Region, 2020–2027
9.4 Media and Entertainment
9.4.1 Market Estimates & Forecast, 2020–2027
9.4.2 Market Estimates & Forecast, by Region, 2020–2027
9.5 Commercial Institutions
9.5.1 Market Estimates & Forecast, 2020–2027
9.5.2 Market Estimates & Forecast, by Region, 2020–2027
9.6 Government
9.6.1 Market Estimates & Forecast, 2020–2027
9.6.2 Market Estimates & Forecast, by Region, 2020–2027
9.7 Telecommunication
9.7.1 Market Estimates & Forecast, 2020–2027
9.7.2 Market Estimates & Forecast, by Region, 2020–2027
9.8 Others
9.8.1 Market Estimates & Forecast, 2020–2027
9.8.2 Market Estimates & Forecast, by Region, 2020–2027
**10. Global All-Flash Array Market, by Region**
10.1 Introduction
10.2 North America
10.2.1 Market Estimates & Forecast, by Country, 2020–2027
10.2.2 Market Estimates & Forecast, by Storage Pattern, 2020–2027
10.2.3 Market Estimates & Forecast, by Flash Media, 2020–2027
10.2.4 Market Estimates & Forecast, by End User, 2020–2027
10.2.5 US
10.2.5.1 Market Estimates & Forecast, 2020–2027
10.2.5.2 Market Estimates & Forecast, by Storage Pattern, 2020–2027
10.2.5.3 Market Estimates & Forecast, by Flash Media, 2020–2027
10.2.5.4 Market Estimates & Forecast, by End User, 2020–2027
10.2.6 Canada
10.2.6.1 Market Estimates & Forecast, 2020–2027
10.2.6.2 Market Estimates & Forecast, by Storage Pattern, 2020–2027
10.2.6.3 Market Estimates & Forecast, by Flash Media, 2020–2027
10.2.6.4 Market Estimates & Forecast, by End User, 2020–2027
10.2.7 Mexico
10.2.7.1 Market Estimates & Forecast, 2020–2027

10.2.7.2 Market Estimates & Forecast, by Storage Pattern, 2020–2027
10.2.7.3 Market Estimates & Forecast, by Flash Media, 2020–2027
10.2.7.4 Market Estimates & Forecast, by End User, 2020–2027
10.3 Europe
10.3.1 Market Estimates & Forecast, by Country, 2020–2027
10.3.2 Market Estimates & Forecast, by Storage Pattern, 2020–2027
10.3.3 Market Estimates & Forecast, by Flash Media, 2020–2027
10.3.4 Market Estimates & Forecast, by End User, 2020–2027
10.3.5 Germany
10.3.5.1 Market Estimates & Forecast, 2020–2027
10.3.5.2 Market Estimates & Forecast, by Storage Pattern, 2020–2027
10.3.5.3 Market Estimates & Forecast, by Flash Media, 2020–2027
10.3.5.4 Market Estimates & Forecast, by End User, 2020–2027
10.3.6 UK
10.3.6.1 Market Estimates & Forecast, 2020–2027
10.3.6.2 Market Estimates & Forecast, by Storage Pattern, 2020–2027
10.3.6.3 Market Estimates & Forecast, by Flash Media, 2020–2027
10.3.6.4 Market Estimates & Forecast, by End User, 2020–2027
10.3.7 France
10.3.7.1 Market Estimates & Forecast, 2020–2027
10.3.7.2 Market Estimates & Forecast, by Storage Pattern, 2020–2027
10.3.7.3 Market Estimates & Forecast, by Flash Media, 2020–2027
10.3.7.4 Market Estimates & Forecast, by End User, 2020–2027
10.3.8 Italy
10.3.8.1 Market Estimates & Forecast, 2020–2027
10.3.8.2 Market Estimates & Forecast, by Storage Pattern, 2020–2027
10.3.8.3 Market Estimates & Forecast, by Flash Media 2020–2027
10.3.8.4 Market Estimates & Forecast, by End User, 2020–2027
10.3.9 Rest of Europe
10.3.9.1 Market Estimates & Forecast, 2020–2027
10.3.9.2 Market Estimates & Forecast, by Storage Pattern, 2020–2027
10.3.9.3 Market Estimates & Forecast, by Flash Media, 2020–2027
10.3.9.4 Market Estimates & Forecast, by End User, 2020–2027
10.4 Asia-Pacific
10.4.1 Market Estimates & Forecast, by Country, 2020–2027
10.4.2 Market Estimates & Forecast, by Storage Pattern, 2020–2027
10.4.3 Market Estimates & Forecast, by Flash Media, 2020–2027
10.4.4 Market Estimates & Forecast, by End User, 2020–2027
10.4.5 Japan
10.4.5.1 Market Estimates & Forecast, 2020–2027
10.4.5.2 Market Estimates & Forecast, by Storage Pattern, 2020–2027
10.4.5.3 Market Estimates & Forecast, by Flash Media, 2020–2027
10.4.5.4 Market Estimates & Forecast, by End User, 2020–2027
10.4.6 China
10.4.6.1 Market Estimates & Forecast, 2020–2027
10.4.6.2 Market Estimates & Forecast, by Storage Pattern, 2020–2027
10.4.6.3 Market Estimates & Forecast, by Flash Media, 2020–2027
10.4.6.4 Market Estimates & Forecast, by End User, 2020–2027
10.4.7 India
10.4.7.1 Market Estimates & Forecast, 2020–2027
10.4.7.2 Market Estimates & Forecast, by Storage Pattern, 2020–2027
10.4.7.3 Market Estimates & Forecast, by Flash Media, 2020–2027
10.4.7.4 Market Estimates & Forecast, by End User, 2020–2027
10.4.8 Rest of Asia-Pacific
10.4.8.1 Market Estimates & Forecast, 2020–2027
10.4.8.2 Market Estimates & Forecast, by Storage Pattern, 2020–2027
10.4.8.3 Market Estimates & Forecast, by Flash Media, 2020–2027
10.4.8.4 Market Estimates & Forecast, by End User, 2020–2027
10.5 Rest of the World
10.5.1 Market Estimates & Forecast, by Region, 2020–2027
10.5.2 Market Estimates & Forecast, by Storage Pattern, 2020–2027
10.5.3 Market Estimates & Forecast, by Flash Media, 2020–2027
10.5.4 Market Estimates & Forecast, by End User, 2020–2027
10.5.5 Middle East & Africa
10.5.5.1 Market Estimates & Forecast, 2020–2027
10.5.5.2 Market Estimates & Forecast, by Storage Pattern, 2020–2027
10.5.5.3 Market Estimates & Forecast, by Flash Media, 2020–2027
10.5.5.4 Market Estimates & Forecast, by End User, 2020–2027
10.5.6 South America
10.5.6.1 Market Estimates & Forecast, 2020–2027
10.5.6.2 Market Estimates & Forecast, by Storage Pattern, 2020–2027
10.5.6.3 Market Estimates & Forecast, by Flash Media, 2020–2027
10.5.4.4 Market Estimates & Forecast, by End User, 2020–2027
**11. Company Landscape**
11.1 Competitive Overview
11.2 Competitor Dashboard
11.3 Major Growth Strategy in the Global All-Flash Array Market
11.4 Competitive Benchmarking
11.5 Key Developments & Growth Strategies
11.5.1 New Product Launch/Service Deployment
11.5.2 Merger & Acquisition
11.5.3 Joint Ventures
**12. Company Profiles**
12.1 Dell Technologies
12.1.1 Company Overview
12.1.2 Product/Business Segment Overview
12.1.3 Financial Updates
12.1.4 Key Developments
12.2 Hewlett Packard Enterprise
12.2.1 Company Overview
12.2.2 Product/Business Segment Overview
12.2.3 Financial Updates
12.2.4 Key Developments

12.3 NetApp, Inc.
12.3.1 Company Overview
12.3.2 Product/Business Segment Overview
12.3.3 Financial Updates
12.3.4 Key Developments
12.4 Pure Storage
12.4.1 Company Overview
12.4.2 Product/Business Segment Overview
12.4.3 Financial Updates
12.4.4 Key Developments
12.5 IBM Corporation
12.5.1 Company Overview
12.5.2 Product/Business Segment Overview
12.5.3 Financial Updates
12.5.4 Key Developments
12.6 Huawei Technologies Co. Ltd.
12.6.1 Company Overview
12.6.2 Product/Business Segment Overview
12.6.3 Financial Updates
12.6.4 Key Developments
12.7 Western Digital Corporation
12.7.1 Company Overview
12.7.2 Product/Business Segment Overview
12.7.3 Financial Updates
12.7.4 Key Developments
12.8 Hitachi, Ltd.
12.8.1 Company Overview
12.8.2 Product/Business Segment Overview
12.8.3 Financial Updates
12.8.4 Key Developments
12.9 Kaminario
12.9.1 Company Overview
12.9.2 Product/Business Segment Overview
12.9.3 Financial Updates
12.9.4 Key Developments
12.10 Micron Technology, Inc.
12.10.1 Company Overview
12.10.2 Product/Business Segment Overview
12.10.3 Financial Updates
12.10.4 Key Developments
12.11 Violin Systems
12.11.1 Company Overview
12.11.2 Product/Business Segment Overview
12.11.3 Financial Updates
12.11.4 Key Developments
12.12 Cisco Systems, Inc.
12.12.1 Company Overview
12.12.2 Product/Business Segment Overview
12.12.3 Financial Updates
12.12.4 Key Developments
12.13 E8 Storage
12.13.1 Company Overview
12.13.2 Product/Business Segment Overview
12.13.3 Financial Updates
12.13.4 Key Developments
12.14 Vexata Inc.
12.14.1 Company Overview
12.14.2 Product/Business Segment Overview
12.14.3 Financial Updates
12.14.4 Key Developments
12.15 Fujitsu Ltd.
12.15.1 Company Overview
12.15.2 Product/Business Segment Overview
12.15.3 Financial Updates
12.15.4 Key Developments
**12 Conclusion**
LIST OF TABLES
Table 1 Global All-Flash Array Market, by Region, 2020–2027
Table 2 North America: All-Flash Array Market, by Country, 2020–2027
Table 3 Europe: All-Flash Array Market, by Country, 2020–2027
Table 4 Asia-Pacific: All-Flash Array Market, by Country, 2020–2027
Table 5 Middle East & Africa: All-Flash Array Market, by Country, 2020–2027
Table 6 South America: All-Flash Array Market, by Country, 2020–2027
Table 7 Global All-Flash Array Market, by Region, 2020–2027
Table 8 North America: All-Flash Array Market, by Country, 2020–2027
Table 9 Europe: All-Flash Array Market, by Country, 2020–2027
Table10 Asia-Pacific: All-Flash Array Market, by Country, 2020–2027
Table11 Middle East & Africa: All-Flash Array Market, by Country, 2020–2027
Table12 South America: All-Flash Array Market, by Country, 2020–2027
Table13 Global All-Flash Array Flash Media Market, by Region, 2020–2027
Table14 North America: All-Flash Array Flash Media Market, by Country, 2020–2027
Table15 Europe: All-Flash Array Flash Media Market, by Country, 2020–2027
Table16 Asia-Pacific: All-Flash Array Flash Media Market, by Country, 2020–2027
Table17 Middle East & Africa: All-Flash Array Flash Media Market, by Country, 2020–2027
Table18 South America: All-Flash Array Flash Media Market, by Country, 2020–2027
Table19 Global All-Flash Array End User Market, by Region, 2020–2027
Table20 North America: All-Flash Array End User Market, by Country, 2020–2027
Table21 Europe: All-Flash Array End User Market, by Country, 2020–2027
Table22 Asia-Pacific: All-Flash Array End User Market, by Country, 2020–2027
Table23 Middle East & Africa: All-Flash Array End User Market, by Country, 2020–2027
Table24 South America: All-Flash Array End User Market, by Country, 2020–2027
Table25 Global Storage Pattern Market, by Region, 2020–2027
Table26 Global Flash Media Market, by Region, 2020–2027

Table27 Global End User Market, by Region, 2020–2027
Table28 North America: All-Flash Array Market, by Country
Table29 North America: All-Flash Array Market, by Storage Pattern
Table30 North America: All-Flash Array Market, by Flash Media
Table31 North America: All-Flash Array Market, by End User
Table32 Europe: All-Flash Array Market, by Country
Table33 Europe: All-Flash Array Market, by Storage Pattern
Table34 Europe: All-Flash Array Market, by Flash Media
Table 35 Europe: All-Flash Array Market, by End User
Table36 Asia-Pacific: All-Flash Array Market, by Country
Table37 Asia-Pacific: All-Flash Array Market, by Storage Pattern
Table38 Asia-Pacific: All-Flash Array Market, by Flash Media
Table 39 Asia-Pacific: All-Flash Array Market, by End User
Table40 Middle East & Africa: All-Flash Array Market, by Country
Table41 Middle East & Africa: All-Flash Array Market, by Storage Pattern
Table42 Middle East & Africa: All-Flash Array Market, by Flash Media
Table43 Middle East & Africa: All-Flash Array Market, by End User
Table44 South America: All-Flash Array Market, by Country
Table45 South America: All-Flash Array Market, by Storage Pattern
Table46 South America: All-Flash Array Market, by Flash Media
Table47 South America: All-Flash Array Market, by End User
LIST OF FIGURES
FIGURE 1 Global All-Flash Array Market Segmentation
FIGURE 2 Forecast Methodology
FIGURE 3 Porter's Five Forces Analysis of the Global All-Flash Array Market
FIGURE 4 Value Chain of the Global All-Flash Array Market
FIGURE 5 Share of the Global All-Flash Array Market in 2020, by Country (in %)
FIGURE 6 Global All-Flash Array Market, 2020–2027
FIGURE 7 Sub-segments of Storage Pattern
FIGURE 8 Global All-Flash Array Market Size, by Storage Pattern, 2020
FIGURE 9 Share of the Global All-Flash Array Market, by Storage Pattern, 2020–2027
FIGURE 10 Global All-Flash Array Market Size, by Flash Media, 2020
FIGURE 11 Share of the Global All-Flash Array Market, by Flash Media, 2020–2027
FIGURE 12 Global All-Flash Array Market Size, by End User, 2020–2027
FIGURE 13 Share of the Global All-Flash Array Market, by End User, 2020–2027