

Global Disk Array Controller ICs Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Disk Array Controller ICs market size is expected to reach \$ 1399 million by 2032, rising at a market growth of 6.6% CAGR during the forecast period (2026-2032).

Disk array controller ICs are specialized integrated circuits used in disk array systems to manage multiple storage devices such as HDDs or SSDs. These chips handle data management, I/O scheduling, RAID logic processing, and data protection at the hardware level. They typically integrate high-speed host interfaces, backend storage interfaces, RAID engines, cache management, and error correction mechanisms, enabling functions such as data striping, mirroring, parity calculation, and array rebuilding. Disk array controller ICs are widely deployed in servers, enterprise storage systems, data centers, and some high-end workstations and embedded storage platforms, serving as a core component for achieving high performance, reliability, and availability in modern storage architectures.

The market is driven by the expansion of data centers and the ongoing upgrade of enterprise storage infrastructure. Rapid growth in cloud computing, big data, and artificial intelligence workloads has significantly increased demand for storage systems with high concurrency, performance, and reliability, reinforcing the value of hardware-based RAID and dedicated controller ICs. At the same time, the rising adoption of enterprise SSDs and successive upgrades of high-speed interfaces such as PCIe are pushing continuous advancements in bandwidth capability, protocol support, and cache architecture of disk array controller ICs. In addition, increasing requirements for data security and business continuity are encouraging broader deployment of storage solutions with robust data protection and fault-tolerance features, supporting long-term growth of this market.

Broadcom is the largest manufacturers of Disk Array Controller Ics in the world, has a share over 60%. Other players include Microchip, Marvell, Intel, etc.

This report studies the global Disk Array Controller ICs production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Disk Array Controller ICs 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 Disk Array Controller ICs that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Disk Array Controller ICs total production and demand, 2021-2032, (K Units)

Global Disk Array Controller ICs total production value, 2021-2032, (USD Million)

Global Disk Array Controller ICs production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Disk Array Controller ICs consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Disk Array Controller ICs domestic production, consumption, key domestic manufacturers and share

Global Disk Array Controller ICs production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Disk Array Controller ICs production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Disk Array Controller ICs production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Disk Array Controller ICs market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Broadcom, Microchip, Marvell, Intel, Hangzhou Hualan Microelectronics, 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 Disk Array Controller ICs market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, 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 Disk Array Controller ICs Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Disk Array Controller ICs Market, Segmentation by Type:

RAID Controller IC

HBA Controller IC

Expander Controller IC

Others

Global Disk Array Controller ICs Market, Segmentation by Host Interface:

PCIe

SAS

SATA

Global Disk Array Controller ICs Market, Segmentation by Storage Media:

Hard Disk Drives (HDDs)

Solid State Drives (SSDs)

Hybrid Storage

Global Disk Array Controller ICs Market, Segmentation by Application:

DAS

NAS

SAN

Companies Profiled:

Broadcom

Microchip

Marvell

Intel

Hangzhou Hualan Microelectronics

Key Questions Answered:

1. How big is the global Disk Array Controller ICs market?
2. What is the demand of the global Disk Array Controller ICs market?
3. What is the year over year growth of the global Disk Array Controller ICs market?
4. What is the production and production value of the global Disk Array Controller ICs market?
5. Who are the key producers in the global Disk Array Controller ICs market?
6. What are the growth factors driving the market demand?

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