

Global Advanced RAID Controller Card Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Advanced RAID Controller Card market size is expected to reach \$ 1405 million by 2032, rising at a market growth of 5.8% CAGR during the forecast period (2026-2032).

In 2025, global Advanced RAID Controller Card production reached approximately 4.97 million units, with an average global market price of around USD 185 per unit.

The gross profit margin of major companies in the industry is between 26.38%-44.75%.

In 2025, the global production capacity of Advanced RAID Controller Card was approximately 6.54 million units.

Advanced RAID Controller Card is a hardware storage controller used in servers, workstations and storage systems to manage multiple drives through RAID configurations. It improves data redundancy, storage performance, drive management and system reliability through dedicated processors, cache memory, firmware and interface protocols. The product scope includes PCIe RAID cards supporting SAS, SATA or NVMe storage, with features such as cache protection, hot-swap management and enterprise firmware. It excludes basic host bus adapters without RAID functions, software-only RAID solutions and consumer memory cards.

The industry chain includes controller chips, printed circuit boards, memory chips, power protection modules, connectors, passive components, firmware, heat sinks and testing services. Midstream production covers circuit design, board assembly, firmware integration, signal integrity optimization, validation, compatibility testing and packaging. Downstream demand comes from data centers, enterprise servers, storage arrays,

edge computing, video surveillance storage, industrial computers and high-performance workstations. Growth is linked to data volume expansion, hybrid storage systems, enterprise reliability requirements and continued demand for controlled storage redundancy.

Data center construction, enterprise storage and industrial server deployment drive market growth of advanced RAID controller cards. Reliable data redundancy protection improves storage security and read-write efficiency. Multi-channel expansion and intelligent fault detection enrich enterprise storage configuration options.

This report studies the global Advanced RAID Controller Card production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Advanced RAID Controller Card total production and demand, 2021-2032, (K Pcs)

Global Advanced RAID Controller Card total production value, 2021-2032, (USD Million)

Global Advanced RAID Controller Card production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Advanced RAID Controller Card consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Advanced RAID Controller Card domestic production, consumption, key domestic manufacturers and share

Global Advanced RAID Controller Card production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Advanced RAID Controller Card production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Advanced RAID Controller Card production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Advanced RAID Controller Card 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 Technology, HighPoint Technologies, ATTO Technology, Graid Technology, Dell Technologies, Hewlett Packard Enterprise, Supermicro, Areca Technology, Lenovo, 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 Advanced RAID Controller Card market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pcs) 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 Advanced RAID Controller Card Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Advanced RAID Controller Card Market, Segmentation by Type:

PCIe 3.0 RAID Controller Cards

PCIe 4.0 RAID Controller Cards

PCIe 5.0 RAID Controller Cards

Global Advanced RAID Controller Card Market, Segmentation by Drive Interface:

SAS/SATA RAID Controller Cards

NVMe RAID Controller Cards

Tri-Mode RAID Controller Cards

Global Advanced RAID Controller Card Market, Segmentation by Maximum Drive Support:

Entry Level??8 drives?

Mid-Range?9?16 drives?

High-Density??16 drives?

Global Advanced RAID Controller Card Market, Segmentation by Application:

Enterprise Servers

Data Storage Arrays

Professional Workstations

Other

Companies Profiled:

Broadcom

Microchip Technology

HighPoint Technologies

ATTO Technology

Graid Technology

Dell Technologies

Hewlett Packard Enterprise

Supermicro

Areca Technology

Lenovo

Huawei

Inspur

H3C

Key Questions Answered:

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

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