

Global Advanced RAID Controller Card Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Advanced RAID Controller Card market size was valued at US\$ 947 million in 2025 and is forecast to a readjusted size of US\$ 1405 million by 2032 with a CAGR of 5.8% during review period.

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 is a detailed and comprehensive analysis for global Advanced RAID Controller Card market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Advanced RAID Controller Card market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global Advanced RAID Controller Card market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global Advanced RAID Controller Card market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global Advanced RAID Controller Card market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pcs), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Advanced RAID Controller Card

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Advanced RAID Controller Card market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Advanced RAID Controller Card market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

PCIe 3.0 RAID Controller Cards

PCIe 4.0 RAID Controller Cards

PCIe 5.0 RAID Controller Cards

Market segment by Drive Interface

SAS/SATA RAID Controller Cards

NVMe RAID Controller Cards

Tri-Mode RAID Controller Cards

Market segment by Maximum Drive Support

Entry Level??8 drives?

Mid-Range?9?16 drives?

High-Density??16 drives?

Market segment by Application

Enterprise Servers

Data Storage Arrays

Professional Workstations

Other

Major players covered

Broadcom

Microchip Technology

HighPoint Technologies

ATTO Technology

Graid Technology

Dell Technologies

Hewlett Packard Enterprise

Supermicro

Areca Technology

Lenovo

Huawei

Inspur

H3C

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Advanced RAID Controller Card product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Advanced RAID Controller Card, with price, sales quantity, revenue, and global market share of Advanced RAID Controller Card from 2021 to 2026.

Chapter 3, the Advanced RAID Controller Card competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by

landscape contrast.

Chapter 4, the Advanced RAID Controller Card breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Advanced RAID Controller Card market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Advanced RAID Controller Card.

Chapter 14 and 15, to describe Advanced RAID Controller Card sales channel, distributors, customers, research findings and conclusion.

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