

RAID Controller Card Market Report by Product (Hardware RAID, Software RAID), Type (8 Internal Ports, 16 Internal Ports, and Others), Enterprise Size (SMB Enterprise, Large Enterprise), End User (Internet Industry, Service Industry, Manufacturing Industry, Financial, Government, and Others), and Region 2024-2032

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Abstracts

The global RAID controller card market size reached US\$ 1.3 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 1.6 Billion by 2032, exhibiting a growth rate (CAGR) of 2.75% during 2024-2032. Increasing security concerns among private sectors, significant growth in the BFSI industry, and the rising demand for high-performance data storage systems, represent some of the key factors driving the market.

A redundant array of independent disks (RAID) controller card is a chip used to manage hard disk drives (HDDs) or solid-state drives (SSDs) in a computer or storage array, so they work as a logical unit. It is located between the operating system and a storage drive. It works by virtualizing the drives into distinct groups with specific data protection and redundancy characteristics. The front-end interface communicates with the server through a host-based adapter (HBA). RAID controller card provides data redundancy and improves hard disk drive performance. It offers better reliability, flexibility, higher hard disk drive (HDD) performance, additional cache memory, and dedicated processing.

RAID Controller Card Market Trends:

The widespread product adoption in the banking, financial services, and insurance



(BFSI) industry is driving the market growth. RAID controller card is used to provide fault tolerance and improve the performance of storage devices. In line with this, it allows multiple disks to be grouped and act as a single volume, enhancing performance and protection against data loss, which in turn is augmenting the market growth. Moreover, the widespread product adoption in data centers involving servers and storage devices that are integrated with RAID controllers are favoring the market growth. Apart from this, the rising trend of big data and the Internet of Things (IoT) technologies is also acting as another growth-inducing factor. Additionally, the increasing adoption of cloud-based storage services due to low initial investment and high security is providing an impetus to the market growth. Furthermore, the widespread adoption of hardware RAID controller card that provides an interface between the host system and the drives in the array, offering performance enhancements and fault tolerance, is facilitating the market growth. Along with this, the increasing product utilization in service industry to reduce the time taken when retrieving large amounts of data from storage devices, is positively influencing the market growth. Besides this, the increasing security concerns among private sectors for better storage solutions that can ensure the availability of critical information without any risk of loss or damage are propelling the market growth. Other factors, including extensive research and development (R&D) activities, rising adoption of cloud technologies across government organizations, and the increasing demand for high-performance data storage systems, are anticipated to drive the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global RAID controller card market, along with forecasts at the global, regional, and country level from 2024-2032. Our report has categorized the market based on product, type, enterprise size and end user.

Product Insights:

Hardware RAID Software RAID

The report has provided a detailed breakup and analysis of the RAID controller card market based on the product. This includes hardware and software RAID. According to the report, hardware RAID represented the largest segment.

Type Insights:



8 Internal Ports16 Internal PortsOthers

A detailed breakup and analysis of the RAID controller card market based on the type has also been provided in the report. This includes 8, 16 internal ports and others.

Enterprise Size Insights:

SMB Enterprise Large Enterprise

The report has provided a detailed breakup and analysis of the RAID controller card market based on the enterprise size. This includes SMB and large enterprises. According to the report, SMB enterprise represented the largest segment.

End User Insights:

Internet Industry
Service Industry
Manufacturing Industry
Financial
Government
Others

The report has provided a detailed breakup and analysis of the RAID controller card market based on the end user. This includes internet, service, manufacturing industry, financial, government and others.

Regional Insights:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea



Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets that include North America (the United States and Canada); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Latin America (Brazil, Mexico, and others); and Middle East and Africa. According to the report, Asia Pacific was the largest market for RAID controller cards. Some of the factors driving the Asia Pacific RAID controller card market included the rising adoption of cloud technologies, significant technological advancements, and extensive research and development (R&D) activities.

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global RAID controller card market. Detailed profiles of all major companies have also been provided. Some of the companies covered include Advanced HPC Inc., Advantech Co. Ltd., Broadcom Inc., Dell Technologies Inc., Fujitsu Limited, HighPoint Technologies Inc., Intel Corporation, Lenovo Group Limited, Marvell Technology Inc., Microchip Technology Inc., StarTech.com Ltd., etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report

1. How big is the global RAID controller card market?



- 2. What is the expected growth rate of the global RAID controller card market during 2024-2032?
- 3. What are the key factors driving the global RAID controller card market?
- 4. What has been the impact of COVID-19 on the global RAID controller card market?
- 5. What is the breakup of the global RAID controller card market based on the product?
- 6. What is the breakup of the global RAID controller card market based on the enterprise size?
- 7. What are the key regions in the global RAID controller card market?
- 8. Who are the key players/companies in the global RAID controller card market?



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