

RAID Controller Card Market 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 2023-2028

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Abstracts

The global RAID controller card market size reached US\$ 1.23 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 1.49 Billion by 2028, exhibiting a growth rate (CAGR) of 3.15% during 2023-2028. 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 2023-2028. 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 Ports
16 Internal Ports
Others

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:

How has the global RAID controller card market performed so far and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global RAID controller card market?

What are the key regional markets?

Which countries represent the most attractive RAID controller card markets?

What is the breakup of the market based on the product?

What is the breakup of the market based on the type?

What is the breakup of the market based on the enterprise size?

What is the breakup of the market based on end user?

What is the competitive structure of the global RAID controller card market?

Who are the key players/companies in the global RAID controller card market?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL RAID CONTROLLER CARD MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY PRODUCT

- 6.1 Hardware RAID
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Software RAID
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast

7 MARKET BREAKUP BY TYPE

- 7.1 8 Internal Ports
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 16 Internal Ports
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Others
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast

8 MARKET BREAKUP BY ENTERPRISE SIZE

- 8.1 SMB Enterprise
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Large Enterprise
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast

9 MARKET BREAKUP BY END USER

- 9.1 Internet Industry
 - 9.1.1 Market Trends
 - 9.1.2 Market Forecast
- 9.2 Service Industry
 - 9.2.1 Market Trends
 - 9.2.2 Market Forecast
- 9.3 Manufacturing Industry
 - 9.3.1 Market Trends
 - 9.3.2 Market Forecast
- 9.4 Financial
 - 9.4.1 Market Trends
 - 9.4.2 Market Forecast
- 9.5 Government
 - 9.5.1 Market Trends
 - 9.5.2 Market Forecast
- 9.6 Others

9.6.1 Market Trends

9.6.2 Market Forecast

10 MARKET BREAKUP BY REGION

10.1 North America

10.1.1 United States

10.1.1.1 Market Trends

10.1.1.2 Market Forecast

10.1.2 Canada

10.1.2.1 Market Trends

10.1.2.2 Market Forecast

10.2 Asia-Pacific

10.2.1 China

10.2.1.1 Market Trends

10.2.1.2 Market Forecast

10.2.2 Japan

10.2.2.1 Market Trends

10.2.2.2 Market Forecast

10.2.3 India

10.2.3.1 Market Trends

10.2.3.2 Market Forecast

10.2.4 South Korea

10.2.4.1 Market Trends

10.2.4.2 Market Forecast

10.2.5 Australia

10.2.5.1 Market Trends

10.2.5.2 Market Forecast

10.2.6 Indonesia

10.2.6.1 Market Trends

10.2.6.2 Market Forecast

10.2.7 Others

10.2.7.1 Market Trends

10.2.7.2 Market Forecast

10.3 Europe

10.3.1 Germany

10.3.1.1 Market Trends

10.3.1.2 Market Forecast

10.3.2 France

- 10.3.2.1 Market Trends
- 10.3.2.2 Market Forecast
- 10.3.3 United Kingdom
 - 10.3.3.1 Market Trends
 - 10.3.3.2 Market Forecast
- 10.3.4 Italy
 - 10.3.4.1 Market Trends
 - 10.3.4.2 Market Forecast
- 10.3.5 Spain
 - 10.3.5.1 Market Trends
 - 10.3.5.2 Market Forecast
- 10.3.6 Russia
 - 10.3.6.1 Market Trends
 - 10.3.6.2 Market Forecast
- 10.3.7 Others
 - 10.3.7.1 Market Trends
 - 10.3.7.2 Market Forecast
- 10.4 Latin America
 - 10.4.1 Brazil
 - 10.4.1.1 Market Trends
 - 10.4.1.2 Market Forecast
 - 10.4.2 Mexico
 - 10.4.2.1 Market Trends
 - 10.4.2.2 Market Forecast
 - 10.4.3 Others
 - 10.4.3.1 Market Trends
 - 10.4.3.2 Market Forecast
- 10.5 Middle East and Africa
 - 10.5.1 Market Trends
 - 10.5.2 Market Breakup by Country
 - 10.5.3 Market Forecast

11 DRIVERS, RESTRAINTS, AND OPPORTUNITIES

- 11.1 Overview
- 11.2 Drivers
- 11.3 Restraints
- 11.4 Opportunities

12 VALUE CHAIN ANALYSIS

13 PORTERS FIVE FORCES ANALYSIS

- 13.1 Overview
- 13.2 Bargaining Power of Buyers
- 13.3 Bargaining Power of Suppliers
- 13.4 Degree of Competition
- 13.5 Threat of New Entrants
- 13.6 Threat of Substitutes

14 PRICE ANALYSIS

15 COMPETITIVE LANDSCAPE

- 15.1 Market Structure
- 15.2 Key Players
- 15.3 Profiles of Key Players
 - 15.3.1 Advanced HPC Inc.
 - 15.3.1.1 Company Overview
 - 15.3.1.2 Product Portfolio
 - 15.3.2 Advantech Co. Ltd.
 - 15.3.2.1 Company Overview
 - 15.3.2.2 Product Portfolio
 - 15.3.2.3 Financials
 - 15.3.3 Broadcom Inc.
 - 15.3.3.1 Company Overview
 - 15.3.3.2 Product Portfolio
 - 15.3.3.3 Financials
 - 15.3.3.4 SWOT Analysis
 - 15.3.4 Dell Technologies Inc.
 - 15.3.4.1 Company Overview
 - 15.3.4.2 Product Portfolio
 - 15.3.4.3 Financials
 - 15.3.4.4 SWOT Analysis
 - 15.3.5 Fujitsu Limited
 - 15.3.5.1 Company Overview
 - 15.3.5.2 Product Portfolio
 - 15.3.5.3 Financials

- 15.3.5.4 SWOT Analysis
- 15.3.6 HighPoint Technologies Inc.
 - 15.3.6.1 Company Overview
 - 15.3.6.2 Product Portfolio
- 15.3.7 Intel Corporation
 - 15.3.7.1 Company Overview
 - 15.3.7.2 Product Portfolio
 - 15.3.7.3 Financials
 - 15.3.7.4 SWOT Analysis
- 15.3.8 Lenovo Group Limited
 - 15.3.8.1 Company Overview
 - 15.3.8.2 Product Portfolio
 - 15.3.8.3 Financials
 - 15.3.8.4 SWOT Analysis
- 15.3.9 Marvell Technology Inc.
 - 15.3.9.1 Company Overview
 - 15.3.9.2 Product Portfolio
- 15.3.10 Microchip Technology Inc.
 - 15.3.10.1 Company Overview
 - 15.3.10.2 Product Portfolio
 - 15.3.10.3 Financials
 - 15.3.10.4 SWOT Analysis
- 15.3.11 StarTech.com Ltd.
 - 15.3.11.1 Company Overview
 - 15.3.11.2 Product Portfolio

Kindly, note that this only represents a partial list of companies, and the complete list has been provided in the report

List Of Tables

LIST OF TABLES

Table 1: Global: RAID Controller Card Market: Key Industry Highlights, 2022 & 2028

Table 2: Global: RAID Controller Card Market Forecast: Breakup by Product (in Million US\$), 2023-2028

Table 3: Global: RAID Controller Card Market Forecast: Breakup by Type (in Million US\$), 2023-2028

Table 4: Global: RAID Controller Card Market Forecast: Breakup by Enterprise Size (in Million US\$), 2023-2028

Table 5: Global: RAID Controller Card Market Forecast: Breakup by End User (in Million US\$), 2023-2028

Table 6: Global: RAID Controller Card Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 7: Global: RAID Controller Card Market: Competitive Structure

Table 8: Global: RAID Controller Card Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: RAID Controller Card Market: Major Drivers and Challenges

Figure 2: Global: RAID Controller Card Market: Sales Value (in Billion US\$), 2017-2022

Figure 3: Global: RAID Controller Card Market Forecast: Sales Value (in Billion US\$), 2023-2028

Figure 4: Global: RAID Controller Card Market: Breakup by Product (in %), 2022

Figure 5: Global: RAID Controller Card Market: Breakup by Type (in %), 2022

Figure 6: Global: RAID Controller Card Market: Breakup by Enterprise Size (in %), 2022

Figure 7: Global: RAID Controller Card Market: Breakup by End User (in %), 2022

Figure 8: Global: RAID Controller Card Market: Breakup by Region (in %), 2022

Figure 9: Global: RAID Controller Card (Hardware RAID) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 10: Global: RAID Controller Card (Hardware RAID) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 11: Global: RAID Controller Card (Software RAID) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 12: Global: RAID Controller Card (Software RAID) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 13: Global: RAID Controller Card (8 Internal Ports) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 14: Global: RAID Controller Card (8 Internal Ports) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 15: Global: RAID Controller Card (16 Internal Ports) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 16: Global: RAID Controller Card (16 Internal Ports) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 17: Global: RAID Controller Card (Other Types) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 18: Global: RAID Controller Card (Other Types) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 19: Global: RAID Controller Card (SMB Enterprise) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 20: Global: RAID Controller Card (SMB Enterprise) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 21: Global: RAID Controller Card (Large Enterprise) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 22: Global: RAID Controller Card (Large Enterprise) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 23: Global: RAID Controller Card (Internet Industry) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 24: Global: RAID Controller Card (Internet Industry) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 25: Global: RAID Controller Card (Service Industry) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 26: Global: RAID Controller Card (Service Industry) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 27: Global: RAID Controller Card (Manufacturing Industry) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 28: Global: RAID Controller Card (Manufacturing Industry) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 29: Global: RAID Controller Card (Financial) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 30: Global: RAID Controller Card (Financial) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 31: Global: RAID Controller Card (Government) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 32: Global: RAID Controller Card (Government) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 33: Global: RAID Controller Card (Other End Users) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 34: Global: RAID Controller Card (Other End Users) Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 35: North America: RAID Controller Card Market: Sales Value (in Million US\$), 2017 & 2022

Figure 36: North America: RAID Controller Card Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 37: United States: RAID Controller Card Market: Sales Value (in Million US\$), 2017 & 2022

Figure 38: United States: RAID Controller Card Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 39: Canada: RAID Controller Card Market: Sales Value (in Million US\$), 2017 & 2022

Figure 40: Canada: RAID Controller Card Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 41: Asia-Pacific: RAID Controller Card Market: Sales Value (in Million US\$),

2017 & 2022

Figure 42: Asia-Pacific: RAID Controller Card Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 43: China: RAID Controller Card Market: Sales Value (in Million US\$), 2017 & 2022

Figure 44: China: RAID Controller Card Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 45: Japan: RAID Controller Card Market: Sales Value (in Million US\$), 2017 & 2022

Figure 46: Japan: RAID Controller Card Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 47: India: RAID Controller Card Market: Sales Value (in Million US\$), 2017 & 2022

Figure 48: India: RAID Controller Card Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 49: South Korea: RAID Controller Card Market: Sales Value (in Million US\$), 2017 & 2022

Figure 50: South Korea: RAID Controller Card Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 51: Australia: RAID Controller Card Market: Sales Value (in Million US\$), 2017 & 2022

Figure 52: Australia: RAID Controller Card Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 53: Indonesia: RAID Controller Card Market: Sales Value (in Million US\$), 2017 & 2022

Figure 54: Indonesia: RAID Controller Card Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 55: Others: RAID Controller Card Market: Sales Value (in Million US\$), 2017 & 2022

Figure 56: Others: RAID Controller Card Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 57: Europe: RAID Controller Card Market: Sales Value (in Million US\$), 2017 & 2022

Figure 58: Europe: RAID Controller Card Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 59: Germany: RAID Controller Card Market: Sales Value (in Million US\$), 2017 & 2022

Figure 60: Germany: RAID Controller Card Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 61: France: RAID Controller Card Market: Sales Value (in Million US\$), 2017 & 2022

Figure 62: France: RAID Controller Card Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 63: United Kingdom: RAID Controller Card Market: Sales Value (in Million US\$), 2017 & 2022

Figure 64: United Kingdom: RAID Controller Card Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 65: Italy: RAID Controller Card Market: Sales Value (in Million US\$), 2017 & 2022

Figure 66: Italy: RAID Controller Card Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 67: Spain: RAID Controller Card Market: Sales Value (in Million US\$), 2017 & 2022

Figure 68: Spain: RAID Controller Card Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 69: Russia: RAID Controller Card Market: Sales Value (in Million US\$), 2017 & 2022

Figure 70: Russia: RAID Controller Card Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 71: Others: RAID Controller Card Market: Sales Value (in Million US\$), 2017 & 2022

Figure 72: Others: RAID Controller Card Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 73: Latin America: RAID Controller Card Market: Sales Value (in Million US\$), 2017 & 2022

Figure 74: Latin America: RAID Controller Card Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 75: Brazil: RAID Controller Card Market: Sales Value (in Million US\$), 2017 & 2022

Figure 76: Brazil: RAID Controller Card Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 77: Mexico: RAID Controller Card Market: Sales Value (in Million US\$), 2017 & 2022

Figure 78: Mexico: RAID Controller Card Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 79: Others: RAID Controller Card Market: Sales Value (in Million US\$), 2017 & 2022

Figure 80: Others: RAID Controller Card Market Forecast: Sales Value (in Million US\$),

2023-2028

Figure 81: Middle East and Africa: RAID Controller Card Market: Sales Value (in Million US\$), 2017 & 2022

Figure 82: Middle East and Africa: RAID Controller Card Market: Breakup by Country (in %), 2022

Figure 83: Middle East and Africa: RAID Controller Card Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 84: Global: RAID Controller Card Industry: Drivers, Restraints, and Opportunities

Figure 85: Global: RAID Controller Card Industry: Value Chain Analysis

Figure 86: Global: RAID Controller Card Industry: Porter's Five Forces Analysis

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