

Hybrid Memory Cube Market Report by Product (2GB, 4GB, 8GB), Application (Graphics Processing Unit (GPU), Central Processing Unit (CPU), Accelerated Processing Unit (APU), Field-programmable Gate Array (FPGA), Application-specific Integrated Circuit (ASIC)), End Use Industry (Enterprise Storage, Telecommunications and Networking, and Others), and Region 2024-2032

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Abstracts

The global hybrid memory cube market size reached US\$ 1,599.0 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 10,479.9 Million by 2032, exhibiting a growth rate (CAGR) of 22.8% during 2024-2032.

A hybrid memory cube (HMC) is a single package containing dynamic random-access memory (DRAM) systems, which are stacked together through-silicon via (TSV) technology. It impacts specialized high-performance computing and consumer electronics, such as tablets and graphics cards. It enables improvement in bandwidth and performance by breaking through the memory wall. Besides this, it reduces latency, increases bandwidth, and offers efficient power, smaller physical footprint, and built-in reliability, availability, and serviceability (RAS). As a result, HMC finds extensive applications in enterprise storage, telecommunications, and networking across the globe.

Hybrid Memory Cube Market Trends:

At present, there is a rise in the demand for memories offering high bandwidth, low power consumption, and high scalability. This, along with the growing demand for

technologies that can process and store more information efficiently, represents one of the key factors driving the market. Moreover, HMC consumes less energy-per-bit than conventional DRAM-based memory systems. This, coupled with the rising utilization of big data applications, such as business analytics, scientific computing, financial transactions, social networking, and search engines worldwide, is propelling the growth of the market. In addition, the escalating demand for mobility and cloud services around the world that enhance the capability of networking systems and improve the overall performance is positively influencing the market. Besides this, the expanding telecommunication technologies and rapid advancements in transmitting, switching, processing, analyzing, and retrieving information are offering lucrative growth opportunities to industry investors. Furthermore, key market players are financing research and development (R&D) activities to introduce improved product variants. They are also focusing on strategic partnerships and mergers and acquisitions (M&A), which is projected to increase their overall sales and profitability.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global hybrid memory cube market report, along with forecasts at the global, regional and country levels from 2024-2032. Our report has categorized the market based on product, application and, end use industry.

Breakup by Product:

- 2GB
- 4GB
- 8GB

Breakup by Application:

- Graphics Processing Unit (GPU)
- Central Processing Unit (CPU)
- Accelerated Processing Unit (APU)
- Field-programmable Gate Array (FPGA)
- Application-specific Integrated Circuit (ASIC)

Breakup by End Use Industry:

- Enterprise Storage
- Telecommunications and Networking

Others

Breakup by Region:

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

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Achronix Semiconductor Corporation, Arira Design Inc., Arm Limited, Fujitsu Limited, Intel Corporation, International Business Machines Corporation, Micron Technology Inc., NVIDIA Corporation, Open-Silicon Inc. (SiFive Inc.), Samsung Electronics Co. Ltd., Semtech Corporation and Xilinx Inc.

Key Questions Answered in This Report

1. What was the size of the global hybrid memory cube market in 2023?

2. What is the expected growth rate of the global hybrid memory cube market during 2024-2032?
3. What has been the impact of COVID-19 on the global hybrid memory cube market?
4. What are the key factors driving the global hybrid memory cube market?
5. What is the breakup of the global hybrid memory cube market based on the application?
6. What are the key regions in the global hybrid memory cube market?
7. Who are the key players/companies in the global hybrid memory cube 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 HYBRID MEMORY CUBE 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 2GB
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 4GB
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 8GB

- 6.3.1 Market Trends
- 6.3.2 Market Forecast

7 MARKET BREAKUP BY APPLICATION

- 7.1 Graphics Processing Unit (GPU)
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Central Processing Unit (CPU)
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Accelerated Processing Unit (APU)
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
- 7.4 Field-programmable Gate Array (FPGA)
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast
- 7.5 Application-specific Integrated Circuit (ASIC)
 - 7.5.1 Market Trends
 - 7.5.2 Market Forecast

8 MARKET BREAKUP BY END USE INDUSTRY

- 8.1 Enterprise Storage
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Telecommunications and Networking
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
- 8.3 Others
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast

9 MARKET BREAKUP BY REGION

- 9.1 North America
 - 9.1.1 United States
 - 9.1.1.1 Market Trends
 - 9.1.1.2 Market Forecast

- 9.1.2 Canada
 - 9.1.2.1 Market Trends
 - 9.1.2.2 Market Forecast
- 9.2 Asia-Pacific
 - 9.2.1 China
 - 9.2.1.1 Market Trends
 - 9.2.1.2 Market Forecast
 - 9.2.2 Japan
 - 9.2.2.1 Market Trends
 - 9.2.2.2 Market Forecast
 - 9.2.3 India
 - 9.2.3.1 Market Trends
 - 9.2.3.2 Market Forecast
 - 9.2.4 South Korea
 - 9.2.4.1 Market Trends
 - 9.2.4.2 Market Forecast
 - 9.2.5 Australia
 - 9.2.5.1 Market Trends
 - 9.2.5.2 Market Forecast
 - 9.2.6 Indonesia
 - 9.2.6.1 Market Trends
 - 9.2.6.2 Market Forecast
 - 9.2.7 Others
 - 9.2.7.1 Market Trends
 - 9.2.7.2 Market Forecast
- 9.3 Europe
 - 9.3.1 Germany
 - 9.3.1.1 Market Trends
 - 9.3.1.2 Market Forecast
 - 9.3.2 France
 - 9.3.2.1 Market Trends
 - 9.3.2.2 Market Forecast
 - 9.3.3 United Kingdom
 - 9.3.3.1 Market Trends
 - 9.3.3.2 Market Forecast
 - 9.3.4 Italy
 - 9.3.4.1 Market Trends
 - 9.3.4.2 Market Forecast
 - 9.3.5 Spain

- 9.3.5.1 Market Trends
- 9.3.5.2 Market Forecast
- 9.3.6 Russia
 - 9.3.6.1 Market Trends
 - 9.3.6.2 Market Forecast
- 9.3.7 Others
 - 9.3.7.1 Market Trends
 - 9.3.7.2 Market Forecast
- 9.4 Latin America
 - 9.4.1 Brazil
 - 9.4.1.1 Market Trends
 - 9.4.1.2 Market Forecast
 - 9.4.2 Mexico
 - 9.4.2.1 Market Trends
 - 9.4.2.2 Market Forecast
 - 9.4.3 Others
 - 9.4.3.1 Market Trends
 - 9.4.3.2 Market Forecast
- 9.5 Middle East and Africa
 - 9.5.1 Market Trends
 - 9.5.2 Market Breakup by Country
 - 9.5.3 Market Forecast

10 SWOT ANALYSIS

- 10.1 Overview
- 10.2 Strengths
- 10.3 Weaknesses
- 10.4 Opportunities
- 10.5 Threats

11 VALUE CHAIN ANALYSIS

12 PORTERS FIVE FORCES ANALYSIS

- 12.1 Overview
- 12.2 Bargaining Power of Buyers
- 12.3 Bargaining Power of Suppliers
- 12.4 Degree of Competition

12.5 Threat of New Entrants

12.6 Threat of Substitutes

13 PRICE ANALYSIS

14 COMPETITIVE LANDSCAPE

14.1 Market Structure

14.2 Key Players

14.3 Profiles of Key Players

14.3.1 Achronix Semiconductor Corporation

14.3.1.1 Company Overview

14.3.1.2 Product Portfolio

14.3.2 Arira Design Inc.

14.3.2.1 Company Overview

14.3.2.2 Product Portfolio

14.3.3 Arm Limited

14.3.3.1 Company Overview

14.3.3.2 Product Portfolio

14.3.4 Fujitsu Limited

14.3.4.1 Company Overview

14.3.4.2 Product Portfolio

14.3.4.3 Financials

14.3.4.4 SWOT Analysis

14.3.5 Intel Corporation

14.3.5.1 Company Overview

14.3.5.2 Product Portfolio

14.3.5.3 Financials

14.3.5.4 SWOT Analysis

14.3.6 International Business Machines Corporation

14.3.6.1 Company Overview

14.3.6.2 Product Portfolio

14.3.6.3 Financials

14.3.6.4 SWOT Analysis

14.3.7 Micron Technology Inc.

14.3.7.1 Company Overview

14.3.7.2 Product Portfolio

14.3.7.3 Financials

14.3.7.4 SWOT Analysis

- 14.3.8 NVIDIA Corporation
 - 14.3.8.1 Company Overview
 - 14.3.8.2 Product Portfolio
 - 14.3.8.3 Financials
 - 14.3.8.4 SWOT Analysis
- 14.3.9 Open-Silicon Inc. (SiFive Inc.)
 - 14.3.9.1 Company Overview
 - 14.3.9.2 Product Portfolio
- 14.3.10 Samsung Electronics Co. Ltd.
 - 14.3.10.1 Company Overview
 - 14.3.10.2 Product Portfolio
 - 14.3.10.3 Financials
 - 14.3.10.4 SWOT Analysis
- 14.3.11 Semtech Corporation
 - 14.3.11.1 Company Overview
 - 14.3.11.2 Product Portfolio
 - 14.3.11.3 Financials
- 14.3.12 Xilinx Inc.
 - 14.3.12.1 Company Overview
 - 14.3.12.2 Product Portfolio
 - 14.3.12.3 Financials
 - 14.3.12.4 SWOT Analysis

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