

Hybrid Memory Cube Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

<https://marketpublishers.com/r/H5068CBCE951EN.html>

Date: June 2023

Pages: 141

Price: US\$ 2,499.00 (Single User License)

ID: H5068CBCE951EN

Abstracts

The global hybrid memory cube market size reached US\$ 1,265 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 5,538 Million by 2028, exhibiting a growth rate (CAGR) of 26.4% during 2023-2028.

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 level from 2023-2028. 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.

Report Coverage:

Key Questions Answered in This Report

1. What was the size of the global hybrid memory cube market in 2022?
2. What is the expected growth rate of the global hybrid memory cube market during 2023-2028?
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

List Of Tables

LIST OF TABLES

Table 1: Global: Hybrid Memory Cube Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Hybrid Memory Cube Market Forecast: Breakup by Product (in Million US\$), 2023-2028

Table 3: Global: Hybrid Memory Cube Market Forecast: Breakup by Application (in Million US\$), 2023-2028

Table 4: Global: Hybrid Memory Cube Market Forecast: Breakup by End Use Industry (in Million US\$), 2023-2028

Table 5: Global: Hybrid Memory Cube Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 6: Global: Hybrid Memory Cube Market: Competitive Structure

Table 7: Global: Hybrid Memory Cube Market: Key Players

List Of Figures

LIST OF FIGURES

- Figure 1: Global: Hybrid Memory Cube Market: Major Drivers and Challenges
- Figure 2: Global: Hybrid Memory Cube Market: Sales Value (in Million US\$), 2017-2022
- Figure 3: Global: Hybrid Memory Cube Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 4: Global: Hybrid Memory Cube Market: Breakup by Product (in %), 2022
- Figure 5: Global: Hybrid Memory Cube Market: Breakup by Application (in %), 2022
- Figure 6: Global: Hybrid Memory Cube Market: Breakup by End Use Industry (in %), 2022
- Figure 7: Global: Hybrid Memory Cube Market: Breakup by Region (in %), 2022
- Figure 8: Global: Hybrid Memory Cube (2GB) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 9: Global: Hybrid Memory Cube (2GB) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 10: Global: Hybrid Memory Cube (4GB) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 11: Global: Hybrid Memory Cube (4GB) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 12: Global: Hybrid Memory Cube (8GB) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 13: Global: Hybrid Memory Cube (8GB) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 14: Global: Hybrid Memory Cube (Graphics Processing Unit-GPU) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 15: Global: Hybrid Memory Cube (Graphics Processing Unit-GPU) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 16: Global: Hybrid Memory Cube (Central Processing Unit-CPU) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 17: Global: Hybrid Memory Cube (Central Processing Unit-CPU) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 18: Global: Hybrid Memory Cube (Accelerated Processing Unit-APU) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 19: Global: Hybrid Memory Cube (Accelerated Processing Unit-APU) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 20: Global: Hybrid Memory Cube (Field-programmable Gate Array-FPGA) Market: Sales Value (in Million US\$), 2017 & 2022

Figure 21: Global: Hybrid Memory Cube (Field-programmable Gate Array-FPGA)
Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 22: Global: Hybrid Memory Cube (Application-specific Integrated Circuit-ASIC)
Market: Sales Value (in Million US\$), 2017 & 2022

Figure 23: Global: Hybrid Memory Cube (Application-specific Integrated Circuit-ASIC)
Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 24: Global: Hybrid Memory Cube (Enterprise Storage) Market: Sales Value (in
Million US\$), 2017 & 2022

Figure 25: Global: Hybrid Memory Cube (Enterprise Storage) Market Forecast: Sales
Value (in Million US\$), 2023-2028

Figure 26: Global: Hybrid Memory Cube (Telecommunications and Networking) Market:
Sales Value (in Million US\$), 2017 & 2022

Figure 27: Global: Hybrid Memory Cube (Telecommunications and Networking) Market
Forecast: Sales Value (in Million US\$), 2023-2028

Figure 28: Global: Hybrid Memory Cube (Other End Use Industries) Market: Sales
Value (in Million US\$), 2017 & 2022

Figure 29: Global: Hybrid Memory Cube (Other End Use Industries) Market Forecast:
Sales Value (in Million US\$), 2023-2028

Figure 30: North America: Hybrid Memory Cube Market: Sales Value (in Million US\$),
2017 & 2022

Figure 31: North America: Hybrid Memory Cube Market Forecast: Sales Value (in
Million US\$), 2023-2028

Figure 32: United States: Hybrid Memory Cube Market: Sales Value (in Million US\$),
2017 & 2022

Figure 33: United States: Hybrid Memory Cube Market Forecast: Sales Value (in Million
US\$), 2023-2028

Figure 34: Canada: Hybrid Memory Cube Market: Sales Value (in Million US\$), 2017 &
2022

Figure 35: Canada: Hybrid Memory Cube Market Forecast: Sales Value (in Million
US\$), 2023-2028

Figure 36: Asia-Pacific: Hybrid Memory Cube Market: Sales Value (in Million US\$),
2017 & 2022

Figure 37: Asia-Pacific: Hybrid Memory Cube Market Forecast: Sales Value (in Million
US\$), 2023-2028

Figure 38: China: Hybrid Memory Cube Market: Sales Value (in Million US\$), 2017 &
2022

Figure 39: China: Hybrid Memory Cube Market Forecast: Sales Value (in Million US\$),
2023-2028

Figure 40: Japan: Hybrid Memory Cube Market: Sales Value (in Million US\$), 2017 &

2022

Figure 41: Japan: Hybrid Memory Cube Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 42: India: Hybrid Memory Cube Market: Sales Value (in Million US\$), 2017 & 2022

Figure 43: India: Hybrid Memory Cube Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 44: South Korea: Hybrid Memory Cube Market: Sales Value (in Million US\$), 2017 & 2022

Figure 45: South Korea: Hybrid Memory Cube Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 46: Australia: Hybrid Memory Cube Market: Sales Value (in Million US\$), 2017 & 2022

Figure 47: Australia: Hybrid Memory Cube Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 48: Indonesia: Hybrid Memory Cube Market: Sales Value (in Million US\$), 2017 & 2022

Figure 49: Indonesia: Hybrid Memory Cube Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 50: Others: Hybrid Memory Cube Market: Sales Value (in Million US\$), 2017 & 2022

Figure 51: Others: Hybrid Memory Cube Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 52: Europe: Hybrid Memory Cube Market: Sales Value (in Million US\$), 2017 & 2022

Figure 53: Europe: Hybrid Memory Cube Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 54: Germany: Hybrid Memory Cube Market: Sales Value (in Million US\$), 2017 & 2022

Figure 55: Germany: Hybrid Memory Cube Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 56: France: Hybrid Memory Cube Market: Sales Value (in Million US\$), 2017 & 2022

Figure 57: France: Hybrid Memory Cube Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 58: United Kingdom: Hybrid Memory Cube Market: Sales Value (in Million US\$), 2017 & 2022

Figure 59: United Kingdom: Hybrid Memory Cube Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 60: Italy: Hybrid Memory Cube Market: Sales Value (in Million US\$), 2017 & 2022

Figure 61: Italy: Hybrid Memory Cube Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 62: Spain: Hybrid Memory Cube Market: Sales Value (in Million US\$), 2017 & 2022

Figure 63: Spain: Hybrid Memory Cube Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 64: Russia: Hybrid Memory Cube Market: Sales Value (in Million US\$), 2017 & 2022

Figure 65: Russia: Hybrid Memory Cube Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 66: Others: Hybrid Memory Cube Market: Sales Value (in Million US\$), 2017 & 2022

Figure 67: Others: Hybrid Memory Cube Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 68: Latin America: Hybrid Memory Cube Market: Sales Value (in Million US\$), 2017 & 2022

Figure 69: Latin America: Hybrid Memory Cube Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 70: Brazil: Hybrid Memory Cube Market: Sales Value (in Million US\$), 2017 & 2022

Figure 71: Brazil: Hybrid Memory Cube Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 72: Mexico: Hybrid Memory Cube Market: Sales Value (in Million US\$), 2017 & 2022

Figure 73: Mexico: Hybrid Memory Cube Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 74: Others: Hybrid Memory Cube Market: Sales Value (in Million US\$), 2017 & 2022

Figure 75: Others: Hybrid Memory Cube Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 76: Middle East and Africa: Hybrid Memory Cube Market: Sales Value (in Million US\$), 2017 & 2022

Figure 77: Middle East and Africa: Hybrid Memory Cube Market: Breakup by Country (in %), 2022

Figure 78: Middle East and Africa: Hybrid Memory Cube Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 79: Global: Hybrid Memory Cube Industry: SWOT Analysis

Figure 80: Global: Hybrid Memory Cube Industry: Value Chain Analysis

Figure 81: Global: Hybrid Memory Cube Industry: Porter's Five Forces Analysis

I would like to order

Product name: Hybrid Memory Cube Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

Product link: <https://marketpublishers.com/r/H5068CBCE951EN.html>

Price: US\$ 2,499.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/H5068CBCE951EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

