

Global eMCP and uMCP Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global eMCP and uMCP market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

A multi-chip package is a type of electronic packaging that combines several integrated circuits (ICs) into a single device. An MCP is a single component that is capable of handling a whole function.

eMCP (embedded Multi-Chip Package) and uMCP (universal Multi-Chip Package) are types of semiconductor packaging solutions commonly used in the electronics industry. These packages integrate multiple chips, such as NAND flash memory, mobile DRAM, and sometimes other components, into a single compact package. They are widely used in mobile devices like smartphones and tablets to optimize space and enhance performance. Let's discuss the market trends and key aspects related to eMCP and uMCP:

Rising Demand for Mobile Devices:

The demand for smartphones, tablets, and other mobile devices is a significant driver for the eMCP and uMCP market. These packages offer a compact and efficient solution to integrate multiple chips within the limited space of these devices.

Integration of Memory and Storage:

eMCP and uMCP integrate NAND flash memory and mobile DRAM, providing a

compact solution for both memory and storage requirements in mobile devices. This integration enhances device performance and efficiency.

Advancements in Technology and Packaging:

Ongoing advancements in semiconductor technology and packaging techniques are enabling higher storage capacities and faster memory speeds within eMCP and uMCP, keeping pace with the evolving needs of mobile devices.

Cost Efficiency and Space Savings:

eMCP and uMCP offer cost-effective solutions by combining multiple components into a single package, reducing the overall cost of manufacturing and assembly. Additionally, the compact design saves space on the device's circuit board.

Demand for Higher Storage Capacities:

The increasing demand for smartphones with higher storage capacities to accommodate large multimedia files, applications, and games is driving the demand for eMCP and uMCP with higher storage configurations.

Performance Optimization:

Manufacturers are focusing on optimizing the performance of eMCP and uMCP by improving data transfer rates, reducing latency, and enhancing power efficiency to provide a seamless user experience.

Adoption of LPDDR5 and UFS 3.1/4.0:

eMCP and uMCP are adopting the latest mobile memory standards like LPDDR5 (Low Power Double Data Rate 5) and UFS (Universal Flash Storage) 3.1/4.0 to achieve higher data transfer speeds and improved efficiency.

Customization and Flexibility:

Manufacturers are offering customization options in eMCP and uMCP configurations, allowing device manufacturers to choose the appropriate memory and storage configurations based on the target device's specifications and market demand.

Market Competitiveness and Diversification:

The market for eMCP and uMCP is highly competitive, with several key players diversifying their product offerings and focusing on innovation to capture a larger market share.

Environmental Considerations:

Some manufacturers are considering environmental sustainability by employing eco-friendly materials and manufacturing processes in the production of eMCP and uMCP.

Demand from Emerging Markets:

The demand for affordable smartphones with reasonable storage capacities in emerging markets is a significant growth factor for the eMCP and uMCP market.

The market for eMCP and uMCP is expected to continue growing with the increasing demand for mobile devices and the need for efficient memory and storage solutions. Advances in technology and the evolving landscape of mobile devices will drive further innovation in these packaging solutions.

This report is a detailed and comprehensive analysis for global eMCP and uMCP 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 eMCP and uMCP market size and forecasts, in consumption value (\$ Million), sales quantity (M Units), and average selling prices (US\$/K Units), 2020-2031

Global eMCP and uMCP market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (M Units), and average selling prices (US\$/K Units), 2020-2031

Global eMCP and uMCP market size and forecasts, by Type and by Application, in

consumption value (\$ Million), sales quantity (M Units), and average selling prices (US\$/K Units), 2020-2031

Global eMCP and uMCP market shares of main players, shipments in revenue (\$ Million), sales quantity (M Units), and ASP (US\$/K Units), 2020-2025

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 eMCP and uMCP

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 eMCP and uMCP 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 Samsung, SK Hynix, KIOXIA Corporation, Western Digital, Micron Technology, Phison Electronics, Kingston Technology, Longsys, Silicon Motion Technology, BIWIN Storage Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

eMCP and uMCP market is split by Type and by Application. For the period 2020-2031, 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

eMCP

uMCP

Market segment by Application

Smartphones

Tablets

Smart TVs

Smart Wear

Automotive

Others

Major players covered

Samsung

SK Hynix

KIOXIA Corporation

Western Digital

Micron Technology

Phison Electronics

Kingston Technology

Longsys

Silicon Motion Technology

BIWIN Storage Technology

StorArt Technology

SMART Global Holdings

Transcend Information

Swissbit

Greenliant Systems

ATP Electronics

ICMAX Technologies

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 eMCP and uMCP product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of eMCP and uMCP, with price, sales quantity, revenue, and global market share of eMCP and uMCP from 2020 to 2025.

Chapter 3, the eMCP and uMCP competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the eMCP and uMCP breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and eMCP and uMCP market forecast, by regions, by Type, and by Application,

with sales and revenue, from 2026 to 2031.

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 eMCP and uMCP.

Chapter 14 and 15, to describe eMCP and uMCP sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global eMCP and uMCP Consumption Value by Type: 2020 Versus 2024 Versus 2031

1.3.2 eMCP

1.3.3 uMCP

1.4 Market Analysis by Application

1.4.1 Overview: Global eMCP and uMCP Consumption Value by Application: 2020 Versus 2024 Versus 2031

1.4.2 Smartphones

1.4.3 Tablets

1.4.4 Smart TVs

1.4.5 Smart Wear

1.4.6 Automotive

1.4.7 Others

1.5 Global eMCP and uMCP Market Size & Forecast

1.5.1 Global eMCP and uMCP Consumption Value (2020 & 2024 & 2031)

1.5.2 Global eMCP and uMCP Sales Quantity (2020-2031)

1.5.3 Global eMCP and uMCP Average Price (2020-2031)

2 MANUFACTURERS PROFILES

2.1 Samsung

2.1.1 Samsung Details

2.1.2 Samsung Major Business

2.1.3 Samsung eMCP and uMCP Product and Services

2.1.4 Samsung eMCP and uMCP Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.1.5 Samsung Recent Developments/Updates

2.2 SK Hynix

2.2.1 SK Hynix Details

2.2.2 SK Hynix Major Business

2.2.3 SK Hynix eMCP and uMCP Product and Services

2.2.4 SK Hynix eMCP and uMCP Sales Quantity, Average Price, Revenue, Gross

Margin and Market Share (2020-2025)

2.2.5 SK Hynix Recent Developments/Updates

2.3 KIOXIA Corporation

2.3.1 KIOXIA Corporation Details

2.3.2 KIOXIA Corporation Major Business

2.3.3 KIOXIA Corporation eMCP and uMCP Product and Services

2.3.4 KIOXIA Corporation eMCP and uMCP Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.3.5 KIOXIA Corporation Recent Developments/Updates

2.4 Western Digital

2.4.1 Western Digital Details

2.4.2 Western Digital Major Business

2.4.3 Western Digital eMCP and uMCP Product and Services

2.4.4 Western Digital eMCP and uMCP Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.4.5 Western Digital Recent Developments/Updates

2.5 Micron Technology

2.5.1 Micron Technology Details

2.5.2 Micron Technology Major Business

2.5.3 Micron Technology eMCP and uMCP Product and Services

2.5.4 Micron Technology eMCP and uMCP Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.5.5 Micron Technology Recent Developments/Updates

2.6 Phison Electronics

2.6.1 Phison Electronics Details

2.6.2 Phison Electronics Major Business

2.6.3 Phison Electronics eMCP and uMCP Product and Services

2.6.4 Phison Electronics eMCP and uMCP Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.6.5 Phison Electronics Recent Developments/Updates

2.7 Kingston Technology

2.7.1 Kingston Technology Details

2.7.2 Kingston Technology Major Business

2.7.3 Kingston Technology eMCP and uMCP Product and Services

2.7.4 Kingston Technology eMCP and uMCP Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.7.5 Kingston Technology Recent Developments/Updates

2.8 Longsys

2.8.1 Longsys Details

- 2.8.2 Longsys Major Business
- 2.8.3 Longsys eMCP and uMCP Product and Services
- 2.8.4 Longsys eMCP and uMCP Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.8.5 Longsys Recent Developments/Updates
- 2.9 Silicon Motion Technology
 - 2.9.1 Silicon Motion Technology Details
 - 2.9.2 Silicon Motion Technology Major Business
 - 2.9.3 Silicon Motion Technology eMCP and uMCP Product and Services
 - 2.9.4 Silicon Motion Technology eMCP and uMCP Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.9.5 Silicon Motion Technology Recent Developments/Updates
- 2.10 BIWIN Storage Technology
 - 2.10.1 BIWIN Storage Technology Details
 - 2.10.2 BIWIN Storage Technology Major Business
 - 2.10.3 BIWIN Storage Technology eMCP and uMCP Product and Services
 - 2.10.4 BIWIN Storage Technology eMCP and uMCP Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.10.5 BIWIN Storage Technology Recent Developments/Updates
- 2.11 StorArt Technology
 - 2.11.1 StorArt Technology Details
 - 2.11.2 StorArt Technology Major Business
 - 2.11.3 StorArt Technology eMCP and uMCP Product and Services
 - 2.11.4 StorArt Technology eMCP and uMCP Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.11.5 StorArt Technology Recent Developments/Updates
- 2.12 SMART Global Holdings
 - 2.12.1 SMART Global Holdings Details
 - 2.12.2 SMART Global Holdings Major Business
 - 2.12.3 SMART Global Holdings eMCP and uMCP Product and Services
 - 2.12.4 SMART Global Holdings eMCP and uMCP Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.12.5 SMART Global Holdings Recent Developments/Updates
- 2.13 Transcend Information
 - 2.13.1 Transcend Information Details
 - 2.13.2 Transcend Information Major Business
 - 2.13.3 Transcend Information eMCP and uMCP Product and Services
 - 2.13.4 Transcend Information eMCP and uMCP Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.13.5 Transcend Information Recent Developments/Updates

2.14 Swissbit

2.14.1 Swissbit Details

2.14.2 Swissbit Major Business

2.14.3 Swissbit eMCP and uMCP Product and Services

2.14.4 Swissbit eMCP and uMCP Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.14.5 Swissbit Recent Developments/Updates

2.15 Greenliant Systems

2.15.1 Greenliant Systems Details

2.15.2 Greenliant Systems Major Business

2.15.3 Greenliant Systems eMCP and uMCP Product and Services

2.15.4 Greenliant Systems eMCP and uMCP Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.15.5 Greenliant Systems Recent Developments/Updates

2.16 ATP Electronics

2.16.1 ATP Electronics Details

2.16.2 ATP Electronics Major Business

2.16.3 ATP Electronics eMCP and uMCP Product and Services

2.16.4 ATP Electronics eMCP and uMCP Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.16.5 ATP Electronics Recent Developments/Updates

2.17 ICMAX Technologies

2.17.1 ICMAX Technologies Details

2.17.2 ICMAX Technologies Major Business

2.17.3 ICMAX Technologies eMCP and uMCP Product and Services

2.17.4 ICMAX Technologies eMCP and uMCP Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.17.5 ICMAX Technologies Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: EMCP AND UMCP BY MANUFACTURER

3.1 Global eMCP and uMCP Sales Quantity by Manufacturer (2020-2025)

3.2 Global eMCP and uMCP Revenue by Manufacturer (2020-2025)

3.3 Global eMCP and uMCP Average Price by Manufacturer (2020-2025)

3.4 Market Share Analysis (2024)

3.4.1 Producer Shipments of eMCP and uMCP by Manufacturer Revenue (\$MM) and Market Share (%): 2024

3.4.2 Top 3 eMCP and uMCP Manufacturer Market Share in 2024

- 3.4.3 Top 6 eMCP and uMCP Manufacturer Market Share in 2024
- 3.5 eMCP and uMCP Market: Overall Company Footprint Analysis
 - 3.5.1 eMCP and uMCP Market: Region Footprint
 - 3.5.2 eMCP and uMCP Market: Company Product Type Footprint
 - 3.5.3 eMCP and uMCP Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global eMCP and uMCP Market Size by Region
 - 4.1.1 Global eMCP and uMCP Sales Quantity by Region (2020-2031)
 - 4.1.2 Global eMCP and uMCP Consumption Value by Region (2020-2031)
 - 4.1.3 Global eMCP and uMCP Average Price by Region (2020-2031)
- 4.2 North America eMCP and uMCP Consumption Value (2020-2031)
- 4.3 Europe eMCP and uMCP Consumption Value (2020-2031)
- 4.4 Asia-Pacific eMCP and uMCP Consumption Value (2020-2031)
- 4.5 South America eMCP and uMCP Consumption Value (2020-2031)
- 4.6 Middle East & Africa eMCP and uMCP Consumption Value (2020-2031)

5 MARKET SEGMENT BY TYPE

- 5.1 Global eMCP and uMCP Sales Quantity by Type (2020-2031)
- 5.2 Global eMCP and uMCP Consumption Value by Type (2020-2031)
- 5.3 Global eMCP and uMCP Average Price by Type (2020-2031)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global eMCP and uMCP Sales Quantity by Application (2020-2031)
- 6.2 Global eMCP and uMCP Consumption Value by Application (2020-2031)
- 6.3 Global eMCP and uMCP Average Price by Application (2020-2031)

7 NORTH AMERICA

- 7.1 North America eMCP and uMCP Sales Quantity by Type (2020-2031)
- 7.2 North America eMCP and uMCP Sales Quantity by Application (2020-2031)
- 7.3 North America eMCP and uMCP Market Size by Country
 - 7.3.1 North America eMCP and uMCP Sales Quantity by Country (2020-2031)
 - 7.3.2 North America eMCP and uMCP Consumption Value by Country (2020-2031)

7.3.3 United States Market Size and Forecast (2020-2031)

7.3.4 Canada Market Size and Forecast (2020-2031)

7.3.5 Mexico Market Size and Forecast (2020-2031)

8 EUROPE

8.1 Europe eMCP and uMCP Sales Quantity by Type (2020-2031)

8.2 Europe eMCP and uMCP Sales Quantity by Application (2020-2031)

8.3 Europe eMCP and uMCP Market Size by Country

8.3.1 Europe eMCP and uMCP Sales Quantity by Country (2020-2031)

8.3.2 Europe eMCP and uMCP Consumption Value by Country (2020-2031)

8.3.3 Germany Market Size and Forecast (2020-2031)

8.3.4 France Market Size and Forecast (2020-2031)

8.3.5 United Kingdom Market Size and Forecast (2020-2031)

8.3.6 Russia Market Size and Forecast (2020-2031)

8.3.7 Italy Market Size and Forecast (2020-2031)

9 ASIA-PACIFIC

9.1 Asia-Pacific eMCP and uMCP Sales Quantity by Type (2020-2031)

9.2 Asia-Pacific eMCP and uMCP Sales Quantity by Application (2020-2031)

9.3 Asia-Pacific eMCP and uMCP Market Size by Region

9.3.1 Asia-Pacific eMCP and uMCP Sales Quantity by Region (2020-2031)

9.3.2 Asia-Pacific eMCP and uMCP Consumption Value by Region (2020-2031)

9.3.3 China Market Size and Forecast (2020-2031)

9.3.4 Japan Market Size and Forecast (2020-2031)

9.3.5 South Korea Market Size and Forecast (2020-2031)

9.3.6 India Market Size and Forecast (2020-2031)

9.3.7 Southeast Asia Market Size and Forecast (2020-2031)

9.3.8 Australia Market Size and Forecast (2020-2031)

10 SOUTH AMERICA

10.1 South America eMCP and uMCP Sales Quantity by Type (2020-2031)

10.2 South America eMCP and uMCP Sales Quantity by Application (2020-2031)

10.3 South America eMCP and uMCP Market Size by Country

10.3.1 South America eMCP and uMCP Sales Quantity by Country (2020-2031)

10.3.2 South America eMCP and uMCP Consumption Value by Country (2020-2031)

10.3.3 Brazil Market Size and Forecast (2020-2031)

10.3.4 Argentina Market Size and Forecast (2020-2031)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa eMCP and uMCP Sales Quantity by Type (2020-2031)

11.2 Middle East & Africa eMCP and uMCP Sales Quantity by Application (2020-2031)

11.3 Middle East & Africa eMCP and uMCP Market Size by Country

11.3.1 Middle East & Africa eMCP and uMCP Sales Quantity by Country (2020-2031)

11.3.2 Middle East & Africa eMCP and uMCP Consumption Value by Country (2020-2031)

11.3.3 Turkey Market Size and Forecast (2020-2031)

11.3.4 Egypt Market Size and Forecast (2020-2031)

11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)

11.3.6 South Africa Market Size and Forecast (2020-2031)

12 MARKET DYNAMICS

12.1 eMCP and uMCP Market Drivers

12.2 eMCP and uMCP Market Restraints

12.3 eMCP and uMCP Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of eMCP and uMCP and Key Manufacturers

13.2 Manufacturing Costs Percentage of eMCP and uMCP

13.3 eMCP and uMCP Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 eMCP and uMCP Typical Distributors

14.3 eMCP and uMCP Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global eMCP and uMCP Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global eMCP and uMCP Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. Samsung Basic Information, Manufacturing Base and Competitors

Table 4. Samsung Major Business

Table 5. Samsung eMCP and uMCP Product and Services

Table 6. Samsung eMCP and uMCP Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. Samsung Recent Developments/Updates

Table 8. SK Hynix Basic Information, Manufacturing Base and Competitors

Table 9. SK Hynix Major Business

Table 10. SK Hynix eMCP and uMCP Product and Services

Table 11. SK Hynix eMCP and uMCP Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. SK Hynix Recent Developments/Updates

Table 13. KIOXIA Corporation Basic Information, Manufacturing Base and Competitors

Table 14. KIOXIA Corporation Major Business

Table 15. KIOXIA Corporation eMCP and uMCP Product and Services

Table 16. KIOXIA Corporation eMCP and uMCP Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. KIOXIA Corporation Recent Developments/Updates

Table 18. Western Digital Basic Information, Manufacturing Base and Competitors

Table 19. Western Digital Major Business

Table 20. Western Digital eMCP and uMCP Product and Services

Table 21. Western Digital eMCP and uMCP Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. Western Digital Recent Developments/Updates

Table 23. Micron Technology Basic Information, Manufacturing Base and Competitors

Table 24. Micron Technology Major Business

Table 25. Micron Technology eMCP and uMCP Product and Services

Table 26. Micron Technology eMCP and uMCP Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. Micron Technology Recent Developments/Updates

Table 28. Phison Electronics Basic Information, Manufacturing Base and Competitors

Table 29. Phison Electronics Major Business

Table 30. Phison Electronics eMCP and uMCP Product and Services

Table 31. Phison Electronics eMCP and uMCP Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 32. Phison Electronics Recent Developments/Updates

Table 33. Kingston Technology Basic Information, Manufacturing Base and Competitors

Table 34. Kingston Technology Major Business

Table 35. Kingston Technology eMCP and uMCP Product and Services

Table 36. Kingston Technology eMCP and uMCP Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 37. Kingston Technology Recent Developments/Updates

Table 38. Longsys Basic Information, Manufacturing Base and Competitors

Table 39. Longsys Major Business

Table 40. Longsys eMCP and uMCP Product and Services

Table 41. Longsys eMCP and uMCP Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 42. Longsys Recent Developments/Updates

Table 43. Silicon Motion Technology Basic Information, Manufacturing Base and Competitors

Table 44. Silicon Motion Technology Major Business

Table 45. Silicon Motion Technology eMCP and uMCP Product and Services

Table 46. Silicon Motion Technology eMCP and uMCP Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 47. Silicon Motion Technology Recent Developments/Updates

Table 48. BIWIN Storage Technology Basic Information, Manufacturing Base and Competitors

Table 49. BIWIN Storage Technology Major Business

Table 50. BIWIN Storage Technology eMCP and uMCP Product and Services

Table 51. BIWIN Storage Technology eMCP and uMCP Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 52. BIWIN Storage Technology Recent Developments/Updates

Table 53. StorArt Technology Basic Information, Manufacturing Base and Competitors

Table 54. StorArt Technology Major Business

Table 55. StorArt Technology eMCP and uMCP Product and Services

Table 56. StorArt Technology eMCP and uMCP Sales Quantity (M Units), Average

Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 57. StorArt Technology Recent Developments/Updates

Table 58. SMART Global Holdings Basic Information, Manufacturing Base and Competitors

Table 59. SMART Global Holdings Major Business

Table 60. SMART Global Holdings eMCP and uMCP Product and Services

Table 61. SMART Global Holdings eMCP and uMCP Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 62. SMART Global Holdings Recent Developments/Updates

Table 63. Transcend Information Basic Information, Manufacturing Base and Competitors

Table 64. Transcend Information Major Business

Table 65. Transcend Information eMCP and uMCP Product and Services

Table 66. Transcend Information eMCP and uMCP Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 67. Transcend Information Recent Developments/Updates

Table 68. Swissbit Basic Information, Manufacturing Base and Competitors

Table 69. Swissbit Major Business

Table 70. Swissbit eMCP and uMCP Product and Services

Table 71. Swissbit eMCP and uMCP Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 72. Swissbit Recent Developments/Updates

Table 73. Greenliant Systems Basic Information, Manufacturing Base and Competitors

Table 74. Greenliant Systems Major Business

Table 75. Greenliant Systems eMCP and uMCP Product and Services

Table 76. Greenliant Systems eMCP and uMCP Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 77. Greenliant Systems Recent Developments/Updates

Table 78. ATP Electronics Basic Information, Manufacturing Base and Competitors

Table 79. ATP Electronics Major Business

Table 80. ATP Electronics eMCP and uMCP Product and Services

Table 81. ATP Electronics eMCP and uMCP Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 82. ATP Electronics Recent Developments/Updates

Table 83. ICMAX Technologies Basic Information, Manufacturing Base and Competitors

Table 84. ICMAX Technologies Major Business

Table 85. ICMAX Technologies eMCP and uMCP Product and Services

Table 86. ICMAX Technologies eMCP and uMCP Sales Quantity (M Units), Average Price (US\$/K Units), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 87. ICMAX Technologies Recent Developments/Updates

Table 88. Global eMCP and uMCP Sales Quantity by Manufacturer (2020-2025) & (M Units)

Table 89. Global eMCP and uMCP Revenue by Manufacturer (2020-2025) & (USD Million)

Table 90. Global eMCP and uMCP Average Price by Manufacturer (2020-2025) & (US\$/K Units)

Table 91. Market Position of Manufacturers in eMCP and uMCP, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024

Table 92. Head Office and eMCP and uMCP Production Site of Key Manufacturer

Table 93. eMCP and uMCP Market: Company Product Type Footprint

Table 94. eMCP and uMCP Market: Company Product Application Footprint

Table 95. eMCP and uMCP New Market Entrants and Barriers to Market Entry

Table 96. eMCP and uMCP Mergers, Acquisition, Agreements, and Collaborations

Table 97. Global eMCP and uMCP Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 98. Global eMCP and uMCP Sales Quantity by Region (2020-2025) & (M Units)

Table 99. Global eMCP and uMCP Sales Quantity by Region (2026-2031) & (M Units)

Table 100. Global eMCP and uMCP Consumption Value by Region (2020-2025) & (USD Million)

Table 101. Global eMCP and uMCP Consumption Value by Region (2026-2031) & (USD Million)

Table 102. Global eMCP and uMCP Average Price by Region (2020-2025) & (US\$/K Units)

Table 103. Global eMCP and uMCP Average Price by Region (2026-2031) & (US\$/K Units)

Table 104. Global eMCP and uMCP Sales Quantity by Type (2020-2025) & (M Units)

Table 105. Global eMCP and uMCP Sales Quantity by Type (2026-2031) & (M Units)

Table 106. Global eMCP and uMCP Consumption Value by Type (2020-2025) & (USD Million)

Table 107. Global eMCP and uMCP Consumption Value by Type (2026-2031) & (USD Million)

Table 108. Global eMCP and uMCP Average Price by Type (2020-2025) & (US\$/K Units)

Table 109. Global eMCP and uMCP Average Price by Type (2026-2031) & (US\$/K Units)

Table 110. Global eMCP and uMCP Sales Quantity by Application (2020-2025) & (M Units)

Table 111. Global eMCP and uMCP Sales Quantity by Application (2026-2031) & (M Units)

Table 112. Global eMCP and uMCP Consumption Value by Application (2020-2025) & (USD Million)

Table 113. Global eMCP and uMCP Consumption Value by Application (2026-2031) & (USD Million)

Table 114. Global eMCP and uMCP Average Price by Application (2020-2025) & (US\$/K Units)

Table 115. Global eMCP and uMCP Average Price by Application (2026-2031) & (US\$/K Units)

Table 116. North America eMCP and uMCP Sales Quantity by Type (2020-2025) & (M Units)

Table 117. North America eMCP and uMCP Sales Quantity by Type (2026-2031) & (M Units)

Table 118. North America eMCP and uMCP Sales Quantity by Application (2020-2025) & (M Units)

Table 119. North America eMCP and uMCP Sales Quantity by Application (2026-2031) & (M Units)

Table 120. North America eMCP and uMCP Sales Quantity by Country (2020-2025) & (M Units)

Table 121. North America eMCP and uMCP Sales Quantity by Country (2026-2031) & (M Units)

Table 122. North America eMCP and uMCP Consumption Value by Country (2020-2025) & (USD Million)

Table 123. North America eMCP and uMCP Consumption Value by Country (2026-2031) & (USD Million)

Table 124. Europe eMCP and uMCP Sales Quantity by Type (2020-2025) & (M Units)

Table 125. Europe eMCP and uMCP Sales Quantity by Type (2026-2031) & (M Units)

Table 126. Europe eMCP and uMCP Sales Quantity by Application (2020-2025) & (M Units)

Table 127. Europe eMCP and uMCP Sales Quantity by Application (2026-2031) & (M Units)

Table 128. Europe eMCP and uMCP Sales Quantity by Country (2020-2025) & (M Units)

Table 129. Europe eMCP and uMCP Sales Quantity by Country (2026-2031) & (M Units)

Units)

Table 130. Europe eMCP and uMCP Consumption Value by Country (2020-2025) & (USD Million)

Table 131. Europe eMCP and uMCP Consumption Value by Country (2026-2031) & (USD Million)

Table 132. Asia-Pacific eMCP and uMCP Sales Quantity by Type (2020-2025) & (M Units)

Table 133. Asia-Pacific eMCP and uMCP Sales Quantity by Type (2026-2031) & (M Units)

Table 134. Asia-Pacific eMCP and uMCP Sales Quantity by Application (2020-2025) & (M Units)

Table 135. Asia-Pacific eMCP and uMCP Sales Quantity by Application (2026-2031) & (M Units)

Table 136. Asia-Pacific eMCP and uMCP Sales Quantity by Region (2020-2025) & (M Units)

Table 137. Asia-Pacific eMCP and uMCP Sales Quantity by Region (2026-2031) & (M Units)

Table 138. Asia-Pacific eMCP and uMCP Consumption Value by Region (2020-2025) & (USD Million)

Table 139. Asia-Pacific eMCP and uMCP Consumption Value by Region (2026-2031) & (USD Million)

Table 140. South America eMCP and uMCP Sales Quantity by Type (2020-2025) & (M Units)

Table 141. South America eMCP and uMCP Sales Quantity by Type (2026-2031) & (M Units)

Table 142. South America eMCP and uMCP Sales Quantity by Application (2020-2025) & (M Units)

Table 143. South America eMCP and uMCP Sales Quantity by Application (2026-2031) & (M Units)

Table 144. South America eMCP and uMCP Sales Quantity by Country (2020-2025) & (M Units)

Table 145. South America eMCP and uMCP Sales Quantity by Country (2026-2031) & (M Units)

Table 146. South America eMCP and uMCP Consumption Value by Country (2020-2025) & (USD Million)

Table 147. South America eMCP and uMCP Consumption Value by Country (2026-2031) & (USD Million)

Table 148. Middle East & Africa eMCP and uMCP Sales Quantity by Type (2020-2025) & (M Units)

Table 149. Middle East & Africa eMCP and uMCP Sales Quantity by Type (2026-2031) & (M Units)

Table 150. Middle East & Africa eMCP and uMCP Sales Quantity by Application (2020-2025) & (M Units)

Table 151. Middle East & Africa eMCP and uMCP Sales Quantity by Application (2026-2031) & (M Units)

Table 152. Middle East & Africa eMCP and uMCP Sales Quantity by Country (2020-2025) & (M Units)

Table 153. Middle East & Africa eMCP and uMCP Sales Quantity by Country (2026-2031) & (M Units)

Table 154. Middle East & Africa eMCP and uMCP Consumption Value by Country (2020-2025) & (USD Million)

Table 155. Middle East & Africa eMCP and uMCP Consumption Value by Country (2026-2031) & (USD Million)

Table 156. eMCP and uMCP Raw Material

Table 157. Key Manufacturers of eMCP and uMCP Raw Materials

Table 158. eMCP and uMCP Typical Distributors

Table 159. eMCP and uMCP Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. eMCP and uMCP Picture

Figure 2. Global eMCP and uMCP Revenue by Type, (USD Million), 2020 & 2024 & 2031

Figure 3. Global eMCP and uMCP Revenue Market Share by Type in 2024

Figure 4. eMCP Examples

Figure 5. uMCP Examples

Figure 6. Global eMCP and uMCP Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Figure 7. Global eMCP and uMCP Revenue Market Share by Application in 2024

Figure 8. Smartphones Examples

Figure 9. Tablets Examples

Figure 10. Smart TVs Examples

Figure 11. Smart Wear Examples

Figure 12. Automotive Examples

Figure 13. Others Examples

Figure 14. Global eMCP and uMCP Consumption Value, (USD Million): 2020 & 2024 & 2031

Figure 15. Global eMCP and uMCP Consumption Value and Forecast (2020-2031) & (USD Million)

Figure 16. Global eMCP and uMCP Sales Quantity (2020-2031) & (M Units)

Figure 17. Global eMCP and uMCP Price (2020-2031) & (US\$/K Units)

Figure 18. Global eMCP and uMCP Sales Quantity Market Share by Manufacturer in 2024

Figure 19. Global eMCP and uMCP Revenue Market Share by Manufacturer in 2024

Figure 20. Producer Shipments of eMCP and uMCP by Manufacturer Sales (\$MM) and Market Share (%): 2024

Figure 21. Top 3 eMCP and uMCP Manufacturer (Revenue) Market Share in 2024

Figure 22. Top 6 eMCP and uMCP Manufacturer (Revenue) Market Share in 2024

Figure 23. Global eMCP and uMCP Sales Quantity Market Share by Region (2020-2031)

Figure 24. Global eMCP and uMCP Consumption Value Market Share by Region (2020-2031)

Figure 25. North America eMCP and uMCP Consumption Value (2020-2031) & (USD Million)

Figure 26. Europe eMCP and uMCP Consumption Value (2020-2031) & (USD Million)

Figure 27. Asia-Pacific eMCP and uMCP Consumption Value (2020-2031) & (USD Million)

Figure 28. South America eMCP and uMCP Consumption Value (2020-2031) & (USD Million)

Figure 29. Middle East & Africa eMCP and uMCP Consumption Value (2020-2031) & (USD Million)

Figure 30. Global eMCP and uMCP Sales Quantity Market Share by Type (2020-2031)

Figure 31. Global eMCP and uMCP Consumption Value Market Share by Type (2020-2031)

Figure 32. Global eMCP and uMCP Average Price by Type (2020-2031) & (US\$/K Units)

Figure 33. Global eMCP and uMCP Sales Quantity Market Share by Application (2020-2031)

Figure 34. Global eMCP and uMCP Revenue Market Share by Application (2020-2031)

Figure 35. Global eMCP and uMCP Average Price by Application (2020-2031) & (US\$/K Units)

Figure 36. North America eMCP and uMCP Sales Quantity Market Share by Type (2020-2031)

Figure 37. North America eMCP and uMCP Sales Quantity Market Share by Application (2020-2031)

Figure 38. North America eMCP and uMCP Sales Quantity Market Share by Country (2020-2031)

Figure 39. North America eMCP and uMCP Consumption Value Market Share by Country (2020-2031)

Figure 40. United States eMCP and uMCP Consumption Value (2020-2031) & (USD Million)

Figure 41. Canada eMCP and uMCP Consumption Value (2020-2031) & (USD Million)

Figure 42. Mexico eMCP and uMCP Consumption Value (2020-2031) & (USD Million)

Figure 43. Europe eMCP and uMCP Sales Quantity Market Share by Type (2020-2031)

Figure 44. Europe eMCP and uMCP Sales Quantity Market Share by Application (2020-2031)

Figure 45. Europe eMCP and uMCP Sales Quantity Market Share by Country (2020-2031)

Figure 46. Europe eMCP and uMCP Consumption Value Market Share by Country (2020-2031)

Figure 47. Germany eMCP and uMCP Consumption Value (2020-2031) & (USD Million)

Figure 48. France eMCP and uMCP Consumption Value (2020-2031) & (USD Million)

Figure 49. United Kingdom eMCP and uMCP Consumption Value (2020-2031) & (USD Million)

Figure 50. Russia eMCP and uMCP Consumption Value (2020-2031) & (USD Million)

Figure 51. Italy eMCP and uMCP Consumption Value (2020-2031) & (USD Million)

Figure 52. Asia-Pacific eMCP and uMCP Sales Quantity Market Share by Type (2020-2031)

Figure 53. Asia-Pacific eMCP and uMCP Sales Quantity Market Share by Application (2020-2031)

Figure 54. Asia-Pacific eMCP and uMCP Sales Quantity Market Share by Region (2020-2031)

Figure 55. Asia-Pacific eMCP and uMCP Consumption Value Market Share by Region (2020-2031)

Figure 56. China eMCP and uMCP Consumption Value (2020-2031) & (USD Million)

Figure 57. Japan eMCP and uMCP Consumption Value (2020-2031) & (USD Million)

Figure 58. South Korea eMCP and uMCP Consumption Value (2020-2031) & (USD Million)

Figure 59. India eMCP and uMCP Consumption Value (2020-2031) & (USD Million)

Figure 60. Southeast Asia eMCP and uMCP Consumption Value (2020-2031) & (USD Million)

Figure 61. Australia eMCP and uMCP Consumption Value (2020-2031) & (USD Million)

Figure 62. South America eMCP and uMCP Sales Quantity Market Share by Type (2020-2031)

Figure 63. South America eMCP and uMCP Sales Quantity Market Share by Application (2020-2031)

Figure 64. South America eMCP and uMCP Sales Quantity Market Share by Country (2020-2031)

Figure 65. South America eMCP and uMCP Consumption Value Market Share by Country (2020-2031)

Figure 66. Brazil eMCP and uMCP Consumption Value (2020-2031) & (USD Million)

Figure 67. Argentina eMCP and uMCP Consumption Value (2020-2031) & (USD Million)

Figure 68. Middle East & Africa eMCP and uMCP Sales Quantity Market Share by Type (2020-2031)

Figure 69. Middle East & Africa eMCP and uMCP Sales Quantity Market Share by Application (2020-2031)

Figure 70. Middle East & Africa eMCP and uMCP Sales Quantity Market Share by Country (2020-2031)

Figure 71. Middle East & Africa eMCP and uMCP Consumption Value Market Share by Country (2020-2031)

Figure 72. Turkey eMCP and uMCP Consumption Value (2020-2031) & (USD Million)

Figure 73. Egypt eMCP and uMCP Consumption Value (2020-2031) & (USD Million)

Figure 74. Saudi Arabia eMCP and uMCP Consumption Value (2020-2031) & (USD

Million)

Figure 75. South Africa eMCP and uMCP Consumption Value (2020-2031) & (USD Million)

Figure 76. eMCP and uMCP Market Drivers

Figure 77. eMCP and uMCP Market Restraints

Figure 78. eMCP and uMCP Market Trends

Figure 79. Porters Five Forces Analysis

Figure 80. Manufacturing Cost Structure Analysis of eMCP and uMCP in 2024

Figure 81. Manufacturing Process Analysis of eMCP and uMCP

Figure 82. eMCP and uMCP Industrial Chain

Figure 83. Sales Channel: Direct to End-User vs Distributors

Figure 84. Direct Channel Pros & Cons

Figure 85. Indirect Channel Pros & Cons

Figure 86. Methodology

Figure 87. Research Process and Data Source

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