

Global Consumer GPUs Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Consumer GPUs market size is expected to reach \$ 112743 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

In 2025, global Consumer GPU production reached approximately 97 million units , with an average global market price of around US\$700 per unit.

A consumer GPU (Graphics Processing Unit) is a graphics processor designed for personal computing devices such as desktops, laptops, and gaming systems. It accelerates graphics rendering, video processing, and parallel computing tasks. Compared to professional or data-center GPUs, consumer GPUs emphasize cost-performance balance, power efficiency, and entertainment performance. They are widely used in gaming, video editing, 3D modeling, and lightweight AI workloads. Modern GPUs leverage massively parallel architectures to process complex graphics and data efficiently, making them one of the most critical computing components alongside CPUs.

The upstream of the consumer GPU industry includes semiconductor foundries and material suppliers (e.g., TSMC, Samsung), memory providers (e.g., Micron, SK Hynix), and packaging substrate suppliers. The midstream consists of GPU designers and board manufacturers such as NVIDIA, AMD, and Intel, along with add-in board (AIB) vendors like ASUS and MSI. The downstream includes game developers (e.g., Electronic Arts), content creation platforms (e.g., Adobe), PC OEMs (e.g., Dell), and end consumers, forming a complete chain from semiconductor materials to end-user applications.

The consumer GPU market is undergoing structural adjustment. On one hand, demand

is driven by gaming, content creation, and the rise of AI-enabled PCs, pushing continuous performance upgrades. On the other hand, capacity is increasingly allocated to data-center and AI workloads, leading to supply constraints and price volatility. Market trends show a shift toward higher performance, AI acceleration, and improved energy efficiency, with faster product iteration cycles. Key drivers include enhanced gaming graphics, growing AI applications, and hardware upgrade cycles, while challenges include semiconductor supply constraints, rising costs, and substitution pressure from improving integrated graphics. Overall, the consumer GPU market is characterized by premiumization, AI integration, and cyclical fluctuations.

This report studies the global Consumer GPUs production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Consumer GPUs and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Consumer GPUs that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Consumer GPUs total production and demand, 2021-2032, (K Units)

Global Consumer GPUs total production value, 2021-2032, (USD Million)

Global Consumer GPUs production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Consumer GPUs consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Consumer GPUs domestic production, consumption, key domestic manufacturers and share

Global Consumer GPUs production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Consumer GPUs production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Consumer GPUs production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Consumer GPUs market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Nvidia, AMD, Qualcomm, Intel, ARM Limited,

ASUS, MSI, Moore Threads, GUNNIR, Denglin Technologies, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Consumer GPUs market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Consumer GPUs Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Consumer GPUs Market, Segmentation by Type:

High-End Consumer GPU

Mid-Range and Low-End Consumer GPU

Global Consumer GPUs Market, Segmentation by Cooling Methods:

Air Cooling

Water Cooling

Global Consumer GPUs Market, Segmentation by Memory Capacity:

4GB

8GB

16GB

24GB

32GB

Others

Global Consumer GPUs Market, Segmentation by Application:

Desktop Computer

Laptop Computer

Companies Profiled:

Nvidia

AMD

Qualcomm

Intel

ARM Limited

ASUS

MSI

Moore Threads

GUNNIR

Denglin Technologies

Biren Technology

Innosilicon

MetaX

Iluvatar CoreX

Cambricon

Jingjia Micro

VeriSilicon

Key Questions Answered:

1. How big is the global Consumer GPUs market?
2. What is the demand of the global Consumer GPUs market?
3. What is the year over year growth of the global Consumer GPUs market?
4. What is the production and production value of the global Consumer GPUs market?
5. Who are the key producers in the global Consumer GPUs market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Consumer GPUs Introduction
- 1.2 World Consumer GPUs Supply & Forecast
 - 1.2.1 World Consumer GPUs Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Consumer GPUs Production (2021-2032)
 - 1.2.3 World Consumer GPUs Pricing Trends (2021-2032)
- 1.3 World Consumer GPUs Production by Region (Based on Production Site)
 - 1.3.1 World Consumer GPUs Production Value by Region (2021-2032)
 - 1.3.2 World Consumer GPUs Production by Region (2021-2032)
 - 1.3.3 World Consumer GPUs Average Price by Region (2021-2032)
 - 1.3.4 North America Consumer GPUs Production (2021-2032)
 - 1.3.5 Europe Consumer GPUs Production (2021-2032)
 - 1.3.6 China Consumer GPUs Production (2021-2032)
 - 1.3.7 Japan Consumer GPUs Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Consumer GPUs Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Consumer GPUs Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Consumer GPUs Demand (2021-2032)
- 2.2 World Consumer GPUs Consumption by Region
 - 2.2.1 World Consumer GPUs Consumption by Region (2021-2026)
 - 2.2.2 World Consumer GPUs Consumption Forecast by Region (2027-2032)
- 2.3 United States Consumer GPUs Consumption (2021-2032)
- 2.4 China Consumer GPUs Consumption (2021-2032)
- 2.5 Europe Consumer GPUs Consumption (2021-2032)
- 2.6 Japan Consumer GPUs Consumption (2021-2032)
- 2.7 South Korea Consumer GPUs Consumption (2021-2032)
- 2.8 ASEAN Consumer GPUs Consumption (2021-2032)
- 2.9 India Consumer GPUs Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Consumer GPUs Production Value by Manufacturer (2021-2026)

- 3.2 World Consumer GPUs Production by Manufacturer (2021-2026)
- 3.3 World Consumer GPUs Average Price by Manufacturer (2021-2026)
- 3.4 Consumer GPUs Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Consumer GPUs Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Consumer GPUs in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Consumer GPUs in 2025
- 3.6 Consumer GPUs Market: Overall Company Footprint Analysis
 - 3.6.1 Consumer GPUs Market: Region Footprint
 - 3.6.2 Consumer GPUs Market: Company Product Type Footprint
 - 3.6.3 Consumer GPUs Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Consumer GPUs Production Value Comparison
 - 4.1.1 United States VS China: Consumer GPUs Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Consumer GPUs Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Consumer GPUs Production Comparison
 - 4.2.1 United States VS China: Consumer GPUs Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Consumer GPUs Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Consumer GPUs Consumption Comparison
 - 4.3.1 United States VS China: Consumer GPUs Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Consumer GPUs Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Consumer GPUs Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Consumer GPUs Manufacturers, Headquarters and Production Site (States, Country)
 - 4.4.2 United States Based Manufacturers Consumer GPUs Production Value

(2021-2026)

4.4.3 United States Based Manufacturers Consumer GPUs Production (2021-2026)

4.5 China Based Consumer GPUs Manufacturers and Market Share

4.5.1 China Based Consumer GPUs Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Consumer GPUs Production Value (2021-2026)

4.5.3 China Based Manufacturers Consumer GPUs Production (2021-2026)

4.6 Rest of World Based Consumer GPUs Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Consumer GPUs Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Consumer GPUs Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Consumer GPUs Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Consumer GPUs Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 High-End Consumer GPU

5.2.2 Mid-Range and Low-End Consumer GPU

5.3 Market Segment by Type

5.3.1 World Consumer GPUs Production by Type (2021-2032)

5.3.2 World Consumer GPUs Production Value by Type (2021-2032)

5.3.3 World Consumer GPUs Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY COOLING METHODS

6.1 World Consumer GPUs Market Size Overview by Cooling Methods: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Cooling Methods

6.2.1 Air Cooling

6.2.2 Water Cooling

6.3 Market Segment by Cooling Methods

6.3.1 World Consumer GPUs Production by Cooling Methods (2021-2032)

6.3.2 World Consumer GPUs Production Value by Cooling Methods (2021-2032)

6.3.3 World Consumer GPUs Average Price by Cooling Methods (2021-2032)

7 MARKET ANALYSIS BY MEMORY CAPACITY

7.1 World Consumer GPUs Market Size Overview by Memory Capacity: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Memory Capacity

7.2.1 4GB

7.2.2 8GB

7.2.3 16GB

7.2.4 24GB

7.2.5 32GB

7.2.6 Others

7.3 Market Segment by Memory Capacity

7.3.1 World Consumer GPUs Production by Memory Capacity (2021-2032)

7.3.2 World Consumer GPUs Production Value by Memory Capacity (2021-2032)

7.3.3 World Consumer GPUs Average Price by Memory Capacity (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Consumer GPUs Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Desktop Computer

8.2.2 Laptop Computer

8.3 Market Segment by Application

8.3.1 World Consumer GPUs Production by Application (2021-2032)

8.3.2 World Consumer GPUs Production Value by Application (2021-2032)

8.3.3 World Consumer GPUs Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Nvidia

9.1.1 Nvidia Details

9.1.2 Nvidia Major Business

9.1.3 Nvidia Consumer GPUs Product and Services

9.1.4 Nvidia Consumer GPUs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Nvidia Recent Developments/Updates

9.1.6 Nvidia Competitive Strengths & Weaknesses

9.2 AMD

9.2.1 AMD Details

9.2.2 AMD Major Business

- 9.2.3 AMD Consumer GPUs Product and Services
- 9.2.4 AMD Consumer GPUs Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 AMD Recent Developments/Updates
- 9.2.6 AMD Competitive Strengths & Weaknesses
- 9.3 Qualcomm
 - 9.3.1 Qualcomm Details
 - 9.3.2 Qualcomm Major Business
 - 9.3.3 Qualcomm Consumer GPUs Product and Services
 - 9.3.4 Qualcomm Consumer GPUs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Qualcomm Recent Developments/Updates
 - 9.3.6 Qualcomm Competitive Strengths & Weaknesses
- 9.4 Intel
 - 9.4.1 Intel Details
 - 9.4.2 Intel Major Business
 - 9.4.3 Intel Consumer GPUs Product and Services
 - 9.4.4 Intel Consumer GPUs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Intel Recent Developments/Updates
 - 9.4.6 Intel Competitive Strengths & Weaknesses
- 9.5 ARM Limited
 - 9.5.1 ARM Limited Details
 - 9.5.2 ARM Limited Major Business
 - 9.5.3 ARM Limited Consumer GPUs Product and Services
 - 9.5.4 ARM Limited Consumer GPUs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 ARM Limited Recent Developments/Updates
 - 9.5.6 ARM Limited Competitive Strengths & Weaknesses
- 9.6 ASUS
 - 9.6.1 ASUS Details
 - 9.6.2 ASUS Major Business
 - 9.6.3 ASUS Consumer GPUs Product and Services
 - 9.6.4 ASUS Consumer GPUs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 ASUS Recent Developments/Updates
 - 9.6.6 ASUS Competitive Strengths & Weaknesses
- 9.7 MSI
 - 9.7.1 MSI Details

9.7.2 MSI Major Business

9.7.3 MSI Consumer GPUs Product and Services

9.7.4 MSI Consumer GPUs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 MSI Recent Developments/Updates

9.7.6 MSI Competitive Strengths & Weaknesses

9.8 Moore Threads

9.8.1 Moore Threads Details

9.8.2 Moore Threads Major Business

9.8.3 Moore Threads Consumer GPUs Product and Services

9.8.4 Moore Threads Consumer GPUs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Moore Threads Recent Developments/Updates

9.8.6 Moore Threads Competitive Strengths & Weaknesses

9.9 GUNNIR

9.9.1 GUNNIR Details

9.9.2 GUNNIR Major Business

9.9.3 GUNNIR Consumer GPUs Product and Services

9.9.4 GUNNIR Consumer GPUs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 GUNNIR Recent Developments/Updates

9.9.6 GUNNIR Competitive Strengths & Weaknesses

9.10 Denglin Technologies

9.10.1 Denglin Technologies Details

9.10.2 Denglin Technologies Major Business

9.10.3 Denglin Technologies Consumer GPUs Product and Services

9.10.4 Denglin Technologies Consumer GPUs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Denglin Technologies Recent Developments/Updates

9.10.6 Denglin Technologies Competitive Strengths & Weaknesses

9.11 Biren Technology

9.11.1 Biren Technology Details

9.11.2 Biren Technology Major Business

9.11.3 Biren Technology Consumer GPUs Product and Services

9.11.4 Biren Technology Consumer GPUs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Biren Technology Recent Developments/Updates

9.11.6 Biren Technology Competitive Strengths & Weaknesses

9.12 Innosilicon

- 9.12.1 Innosilicon Details
- 9.12.2 Innosilicon Major Business
- 9.12.3 Innosilicon Consumer GPUs Product and Services
- 9.12.4 Innosilicon Consumer GPUs Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.12.5 Innosilicon Recent Developments/Updates
- 9.12.6 Innosilicon Competitive Strengths & Weaknesses
- 9.13 MetaX
 - 9.13.1 MetaX Details
 - 9.13.2 MetaX Major Business
 - 9.13.3 MetaX Consumer GPUs Product and Services
 - 9.13.4 MetaX Consumer GPUs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 MetaX Recent Developments/Updates
 - 9.13.6 MetaX Competitive Strengths & Weaknesses
- 9.14 Iluvatar CoreX
 - 9.14.1 Iluvatar CoreX Details
 - 9.14.2 Iluvatar CoreX Major Business
 - 9.14.3 Iluvatar CoreX Consumer GPUs Product and Services
 - 9.14.4 Iluvatar CoreX Consumer GPUs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Iluvatar CoreX Recent Developments/Updates
 - 9.14.6 Iluvatar CoreX Competitive Strengths & Weaknesses
- 9.15 Cambricon
 - 9.15.1 Cambricon Details
 - 9.15.2 Cambricon Major Business
 - 9.15.3 Cambricon Consumer GPUs Product and Services
 - 9.15.4 Cambricon Consumer GPUs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Cambricon Recent Developments/Updates
 - 9.15.6 Cambricon Competitive Strengths & Weaknesses
- 9.16 Jingjia Micro
 - 9.16.1 Jingjia Micro Details
 - 9.16.2 Jingjia Micro Major Business
 - 9.16.3 Jingjia Micro Consumer GPUs Product and Services
 - 9.16.4 Jingjia Micro Consumer GPUs Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.16.5 Jingjia Micro Recent Developments/Updates
 - 9.16.6 Jingjia Micro Competitive Strengths & Weaknesses

9.17 VeriSilicon

9.17.1 VeriSilicon Details

9.17.2 VeriSilicon Major Business

9.17.3 VeriSilicon Consumer GPUs Product and Services

9.17.4 VeriSilicon Consumer GPUs Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 VeriSilicon Recent Developments/Updates

9.17.6 VeriSilicon Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Consumer GPUs Industry Chain

10.2 Consumer GPUs Upstream Analysis

10.2.1 Consumer GPUs Core Raw Materials

10.2.2 Main Manufacturers of Consumer GPUs Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Consumer GPUs Production Mode

10.6 Consumer GPUs Procurement Model

10.7 Consumer GPUs Industry Sales Model and Sales Channels

10.7.1 Consumer GPUs Sales Model

10.7.2 Consumer GPUs Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World Consumer GPUs Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Consumer GPUs Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Consumer GPUs Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Consumer GPUs Production Value Market Share by Region (2021-2026)
- Table 5. World Consumer GPUs Production Value Market Share by Region (2027-2032)
- Table 6. World Consumer GPUs Production by Region (2021-2026) & (K Units)
- Table 7. World Consumer GPUs Production by Region (2027-2032) & (K Units)
- Table 8. World Consumer GPUs Production Market Share by Region (2021-2026)
- Table 9. World Consumer GPUs Production Market Share by Region (2027-2032)
- Table 10. World Consumer GPUs Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World Consumer GPUs Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. Consumer GPUs Major Market Trends
- Table 13. World Consumer GPUs Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World Consumer GPUs Consumption by Region (2021-2026) & (K Units)
- Table 15. World Consumer GPUs Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World Consumer GPUs Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Consumer GPUs Producers in 2025
- Table 18. World Consumer GPUs Production by Manufacturer (2021-2026) & (K Units)
- Table 19. Production Market Share of Key Consumer GPUs Producers in 2025
- Table 20. World Consumer GPUs Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 21. Global Consumer GPUs Company Evaluation Quadrant
- Table 22. World Consumer GPUs Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Consumer GPUs Production Site of Key Manufacturer
- Table 24. Consumer GPUs Market: Company Product Type Footprint
- Table 25. Consumer GPUs Market: Company Product Application Footprint

Table 26. Consumer GPUs Competitive Factors

Table 27. Consumer GPUs New Entrant and Capacity Expansion Plans

Table 28. Consumer GPUs Mergers & Acquisitions Activity

Table 29. United States VS China Consumer GPUs Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Consumer GPUs Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Consumer GPUs Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Consumer GPUs Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Consumer GPUs Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Consumer GPUs Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Consumer GPUs Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Consumer GPUs Production Market Share (2021-2026)

Table 37. China Based Consumer GPUs Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Consumer GPUs Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Consumer GPUs Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Consumer GPUs Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Consumer GPUs Production Market Share (2021-2026)

Table 42. Rest of World Based Consumer GPUs Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Consumer GPUs Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Consumer GPUs Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Consumer GPUs Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Consumer GPUs Production Market Share (2021-2026)

Table 47. World Consumer GPUs Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Consumer GPUs Production by Type (2021-2026) & (K Units)

Table 49. World Consumer GPUs Production by Type (2027-2032) & (K Units)

Table 50. World Consumer GPUs Production Value by Type (2021-2026) & (USD Million)

Table 51. World Consumer GPUs Production Value by Type (2027-2032) & (USD Million)

Table 52. World Consumer GPUs Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Consumer GPUs Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Consumer GPUs Production Value by Cooling Methods, (USD Million), 2021 & 2025 & 2032

Table 55. World Consumer GPUs Production by Cooling Methods (2021-2026) & (K Units)

Table 56. World Consumer GPUs Production by Cooling Methods (2027-2032) & (K Units)

Table 57. World Consumer GPUs Production Value by Cooling Methods (2021-2026) & (USD Million)

Table 58. World Consumer GPUs Production Value by Cooling Methods (2027-2032) & (USD Million)

Table 59. World Consumer GPUs Average Price by Cooling Methods (2021-2026) & (US\$/Unit)

Table 60. World Consumer GPUs Average Price by Cooling Methods (2027-2032) & (US\$/Unit)

Table 61. World Consumer GPUs Production Value by Memory Capacity, (USD Million), 2021 & 2025 & 2032

Table 62. World Consumer GPUs Production by Memory Capacity (2021-2026) & (K Units)

Table 63. World Consumer GPUs Production by Memory Capacity (2027-2032) & (K Units)

Table 64. World Consumer GPUs Production Value by Memory Capacity (2021-2026) & (USD Million)

Table 65. World Consumer GPUs Production Value by Memory Capacity (2027-2032) & (USD Million)

Table 66. World Consumer GPUs Average Price by Memory Capacity (2021-2026) & (US\$/Unit)

Table 67. World Consumer GPUs Average Price by Memory Capacity (2027-2032) & (US\$/Unit)

Table 68. World Consumer GPUs Production Value by Application, (USD Million), 2021

& 2025 & 2032

Table 69. World Consumer GPUs Production by Application (2021-2026) & (K Units)

Table 70. World Consumer GPUs Production by Application (2027-2032) & (K Units)

Table 71. World Consumer GPUs Production Value by Application (2021-2026) & (USD Million)

Table 72. World Consumer GPUs Production Value by Application (2027-2032) & (USD Million)

Table 73. World Consumer GPUs Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Consumer GPUs Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Nvidia Basic Information, Manufacturing Base and Competitors

Table 76. Nvidia Major Business

Table 77. Nvidia Consumer GPUs Product and Services

Table 78. Nvidia Consumer GPUs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Nvidia Recent Developments/Updates

Table 80. Nvidia Competitive Strengths & Weaknesses

Table 81. AMD Basic Information, Manufacturing Base and Competitors

Table 82. AMD Major Business

Table 83. AMD Consumer GPUs Product and Services

Table 84. AMD Consumer GPUs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. AMD Recent Developments/Updates

Table 86. AMD Competitive Strengths & Weaknesses

Table 87. Qualcomm Basic Information, Manufacturing Base and Competitors

Table 88. Qualcomm Major Business

Table 89. Qualcomm Consumer GPUs Product and Services

Table 90. Qualcomm Consumer GPUs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Qualcomm Recent Developments/Updates

Table 92. Qualcomm Competitive Strengths & Weaknesses

Table 93. Intel Basic Information, Manufacturing Base and Competitors

Table 94. Intel Major Business

Table 95. Intel Consumer GPUs Product and Services

Table 96. Intel Consumer GPUs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Intel Recent Developments/Updates

Table 98. Intel Competitive Strengths & Weaknesses

Table 99. ARM Limited Basic Information, Manufacturing Base and Competitors
Table 100. ARM Limited Major Business
Table 101. ARM Limited Consumer GPUs Product and Services
Table 102. ARM Limited Consumer GPUs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. ARM Limited Recent Developments/Updates
Table 104. ARM Limited Competitive Strengths & Weaknesses
Table 105. ASUS Basic Information, Manufacturing Base and Competitors
Table 106. ASUS Major Business
Table 107. ASUS Consumer GPUs Product and Services
Table 108. ASUS Consumer GPUs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. ASUS Recent Developments/Updates
Table 110. ASUS Competitive Strengths & Weaknesses
Table 111. MSI Basic Information, Manufacturing Base and Competitors
Table 112. MSI Major Business
Table 113. MSI Consumer GPUs Product and Services
Table 114. MSI Consumer GPUs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. MSI Recent Developments/Updates
Table 116. MSI Competitive Strengths & Weaknesses
Table 117. Moore Threads Basic Information, Manufacturing Base and Competitors
Table 118. Moore Threads Major Business
Table 119. Moore Threads Consumer GPUs Product and Services
Table 120. Moore Threads Consumer GPUs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Moore Threads Recent Developments/Updates
Table 122. Moore Threads Competitive Strengths & Weaknesses
Table 123. GUNNIR Basic Information, Manufacturing Base and Competitors
Table 124. GUNNIR Major Business
Table 125. GUNNIR Consumer GPUs Product and Services
Table 126. GUNNIR Consumer GPUs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. GUNNIR Recent Developments/Updates
Table 128. GUNNIR Competitive Strengths & Weaknesses
Table 129. Denglin Technologies Basic Information, Manufacturing Base and Competitors
Table 130. Denglin Technologies Major Business
Table 131. Denglin Technologies Consumer GPUs Product and Services

Table 132. Denglin Technologies Consumer GPUs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Denglin Technologies Recent Developments/Updates

Table 134. Denglin Technologies Competitive Strengths & Weaknesses

Table 135. Biren Technology Basic Information, Manufacturing Base and Competitors

Table 136. Biren Technology Major Business

Table 137. Biren Technology Consumer GPUs Product and Services

Table 138. Biren Technology Consumer GPUs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Biren Technology Recent Developments/Updates

Table 140. Biren Technology Competitive Strengths & Weaknesses

Table 141. Innosilicon Basic Information, Manufacturing Base and Competitors

Table 142. Innosilicon Major Business

Table 143. Innosilicon Consumer GPUs Product and Services

Table 144. Innosilicon Consumer GPUs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Innosilicon Recent Developments/Updates

Table 146. Innosilicon Competitive Strengths & Weaknesses

Table 147. MetaX Basic Information, Manufacturing Base and Competitors

Table 148. MetaX Major Business

Table 149. MetaX Consumer GPUs Product and Services

Table 150. MetaX Consumer GPUs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. MetaX Recent Developments/Updates

Table 152. MetaX Competitive Strengths & Weaknesses

Table 153. Iluvatar CoreX Basic Information, Manufacturing Base and Competitors

Table 154. Iluvatar CoreX Major Business

Table 155. Iluvatar CoreX Consumer GPUs Product and Services

Table 156. Iluvatar CoreX Consumer GPUs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Iluvatar CoreX Recent Developments/Updates

Table 158. Iluvatar CoreX Competitive Strengths & Weaknesses

Table 159. Cambricon Basic Information, Manufacturing Base and Competitors

Table 160. Cambricon Major Business

Table 161. Cambricon Consumer GPUs Product and Services

Table 162. Cambricon Consumer GPUs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Cambricon Recent Developments/Updates

Table 164. Cambricon Competitive Strengths & Weaknesses
Table 165. Jingjia Micro Basic Information, Manufacturing Base and Competitors
Table 166. Jingjia Micro Major Business
Table 167. Jingjia Micro Consumer GPUs Product and Services
Table 168. Jingjia Micro Consumer GPUs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 169. Jingjia Micro Recent Developments/Updates
Table 170. Jingjia Micro Competitive Strengths & Weaknesses
Table 171. VeriSilicon Basic Information, Manufacturing Base and Competitors
Table 172. VeriSilicon Major Business
Table 173. VeriSilicon Consumer GPUs Product and Services
Table 174. VeriSilicon Consumer GPUs Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 175. VeriSilicon Recent Developments/Updates
Table 176. VeriSilicon Competitive Strengths & Weaknesses
Table 177. Global Key Players of Consumer GPUs Upstream (Raw Materials)
Table 178. Global Consumer GPUs Typical Customers
Table 179. Consumer GPUs Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Consumer GPUs Picture

Figure 2. World Consumer GPUs Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Consumer GPUs Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Consumer GPUs Production (2021-2032) & (K Units)

Figure 5. World Consumer GPUs Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Consumer GPUs Production Value Market Share by Region (2021-2032)

Figure 7. World Consumer GPUs Production Market Share by Region (2021-2032)

Figure 8. North America Consumer GPUs Production (2021-2032) & (K Units)

Figure 9. Europe Consumer GPUs Production (2021-2032) & (K Units)

Figure 10. China Consumer GPUs Production (2021-2032) & (K Units)

Figure 11. Japan Consumer GPUs Production (2021-2032) & (K Units)

Figure 12. Consumer GPUs Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Consumer GPUs Consumption (2021-2032) & (K Units)

Figure 15. World Consumer GPUs Consumption Market Share by Region (2021-2032)

Figure 16. United States Consumer GPUs Consumption (2021-2032) & (K Units)

Figure 17. China Consumer GPUs Consumption (2021-2032) & (K Units)

Figure 18. Europe Consumer GPUs Consumption (2021-2032) & (K Units)

Figure 19. Japan Consumer GPUs Consumption (2021-2032) & (K Units)

Figure 20. South Korea Consumer GPUs Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Consumer GPUs Consumption (2021-2032) & (K Units)

Figure 22. India Consumer GPUs Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Consumer GPUs by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Consumer GPUs Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Consumer GPUs Markets in 2025

Figure 26. United States VS China: Consumer GPUs Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Consumer GPUs Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Consumer GPUs Consumption Market Share

Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Consumer GPUs Production Market Share 2025

Figure 30. China Based Manufacturers Consumer GPUs Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Consumer GPUs Production Market Share 2025

Figure 32. World Consumer GPUs Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Consumer GPUs Production Value Market Share by Type in 2025

Figure 34. High-End Consumer GPU

Figure 35. Mid-Range and Low-End Consumer GPU

Figure 36. World Consumer GPUs Production Market Share by Type (2021-2032)

Figure 37. World Consumer GPUs Production Value Market Share by Type (2021-2032)

Figure 38. World Consumer GPUs Average Price by Type (2021-2032) & (US\$/Unit)

Figure 39. World Consumer GPUs Production Value by Cooling Methods, (USD Million), 2021 & 2025 & 2032

Figure 40. World Consumer GPUs Production Value Market Share by Cooling Methods in 2025

Figure 41. Air Cooling

Figure 42. Water Cooling

Figure 43. World Consumer GPUs Production Market Share by Cooling Methods (2021-2032)

Figure 44. World Consumer GPUs Production Value Market Share by Cooling Methods (2021-2032)

Figure 45. World Consumer GPUs Average Price by Cooling Methods (2021-2032) & (US\$/Unit)

Figure 46. World Consumer GPUs Production Value by Memory Capacity, (USD Million), 2021 & 2025 & 2032

Figure 47. World Consumer GPUs Production Value Market Share by Memory Capacity in 2025

Figure 48. 4GB

Figure 49. 8GB

Figure 50. 16GB

Figure 51. 24GB

Figure 52. 32GB

Figure 53. Others

Figure 54. World Consumer GPUs Production Market Share by Memory Capacity (2021-2032)

Figure 55. World Consumer GPUs Production Value Market Share by Memory Capacity

(2021-2032)

Figure 56. World Consumer GPUs Average Price by Memory Capacity (2021-2032) & (US\$/Unit)

Figure 57. World Consumer GPUs Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Consumer GPUs Production Value Market Share by Application in 2025

Figure 59. Desktop Computer

Figure 60. Laptop Computer

Figure 61. World Consumer GPUs Production Market Share by Application (2021-2032)

Figure 62. World Consumer GPUs Production Value Market Share by Application (2021-2032)

Figure 63. World Consumer GPUs Average Price by Application (2021-2032) & (US\$/Unit)

Figure 64. Consumer GPUs Industry Chain

Figure 65. Consumer GPUs Procurement Model

Figure 66. Consumer GPUs Sales Model

Figure 67. Consumer GPUs Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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