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Global Discrete Graphics Chip Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/GB5A8D2CAE47EN.html
Date: October 2026
Pages: 134
Price: US$ 3,480.00 (Single User License)
ID: GB5A8D2CAE47EN

Abstracts

According to our (Global Info Research) latest study, the global Discrete Graphics Chip market size was valued at US$ 50120 million in 2025 and is forecast to a readjusted size of US$ 105510 million by 2032 with a CAGR of 11.3% during review period.

Discrete Graphics Chip, also called a dedicated or standalone GPU, is a specialized processor designed for high-performance graphics rendering and parallel computing.

The Graphics Chip industry has experienced explosive growth in recent years, mainly benefiting from strong demand in areas such as artificial intelligence (AI), high-performance computing (HPC), gaming and metaverse, and autonomous driving.

Global 5 largest manufacturers of Graphics Chip are Nvidia Corporation, Advanced Micro Devices (AMD), Intel Corporation, ARM Limited and Qualcomm, which make up over 80%. Among them, Nvidia Corporation is the leader with about 40% market share. In terms of product types, Graphics Chip can be divided into two types: Independent Graphics Chip and Integrated Graphics Chip. Independent Graphics Chip occupies the largest share of the total market, more than 95%. In terms of product application, Graphics Chip is mainly used in Games and Entertainment, Data center, Professional visualization and Car. Games and Entertainment occupy the largest share of the total market, about 66%.

Discrete Graphics Chip, with their powerful computing power and independent video memory, remain the core hardware in high-performance computing, gaming, and professional graphics. With the development of AI, the metaverse, and autonomous driving, their market demand will continue to grow.

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This report is a detailed and comprehensive analysis for global Discrete Graphics Chip 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 Discrete Graphics Chip market size and forecasts, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (US$/Unit), 2021-2032

Global Discrete Graphics Chip market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (US$/Unit), 2021-2032

Global Discrete Graphics Chip market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (US$/Unit), 2021-2032

Global Discrete Graphics Chip market shares of main players, shipments in revenue ($ Million), sales quantity (Million Units), and ASP (US$/Unit), 2021-2026

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 Discrete Graphics Chip

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 Discrete Graphics Chip market based on

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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 NVidia Corporation, Advanced Micro Devices (AMD), Intel Corporation, 3DLabs Inc, Broadcom Corporation, ARM Limited, Qualcomm, Imagination, VeriSilicon (Vivante), Micron Technology, etc.

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

Market Segmentation

Discrete Graphics Chip market is split by Type and by Application. For the period 2021-2032, 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

Consumer Grade Discrete GPU

Professional Grade Discrete GPU

Data Center Grade Discrete GPU

Market segment by Application

Integrated Graphics Processing Unit

Data Center

Professional Visualization

Car

Others

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Major players covered

NVidia Corporation

Advanced Micro Devices (AMD)

Intel Corporation

3DLabs Inc

Broadcom Corporation

ARM Limited

Qualcomm

Imagination

VeriSilicon (Vivante)

Micron Technology

Apple

Jing Jiawei

Innosilicon

Tianshu Zhixin

Zhaoxin

Loongson

boarding technology

Moore Threads

Biren Technology

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Huawei

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 Discrete Graphics Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Discrete Graphics Chip, with price, sales quantity, revenue, and global market share of Discrete Graphics Chip from 2021 to 2026.

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

Chapter 4, the Discrete Graphics Chip breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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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 2021 to 2026.and Discrete Graphics Chip market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Discrete Graphics Chip.

Chapter 14 and 15, to describe Discrete Graphics Chip sales channel, distributors, customers, research findings and conclusion.

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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 Discrete Graphics Chip Consumption Value by Type: 2021 Versus 2025 Versus 2032
  1.3.2 Consumer Grade Discrete GPU
  1.3.3 Professional Grade Discrete GPU
  1.3.4 Data Center Grade Discrete GPU
1.4 Market Analysis by Application
  1.4.1 Overview: Global Discrete Graphics Chip Consumption Value by Application: 2021 Versus 2025 Versus 2032
  1.4.2 Integrated Graphics Processing Unit
  1.4.3 Data Center
  1.4.4 Professional Visualization
  1.4.5 Car
  1.4.6 Others
1.5 Global Discrete Graphics Chip Market Size & Forecast
  1.5.1 Global Discrete Graphics Chip Consumption Value (2021 & 2025 & 2032)
  1.5.2 Global Discrete Graphics Chip Sales Quantity (2021-2032)
  1.5.3 Global Discrete Graphics Chip Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 NVidia Corporation
  2.1.1 NVidia Corporation Details
  2.1.2 NVidia Corporation Major Business
  2.1.3 NVidia Corporation Discrete Graphics Chip Product and Services
  2.1.4 NVidia Corporation Discrete Graphics Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  2.1.5 NVidia Corporation Recent Developments/Updates
2.2 Advanced Micro Devices (AMD)
  2.2.1 Advanced Micro Devices (AMD) Details
  2.2.2 Advanced Micro Devices (AMD) Major Business
  2.2.3 Advanced Micro Devices (AMD) Discrete Graphics Chip Product and Services
  2.2.4 Advanced Micro Devices (AMD) Discrete Graphics Chip Sales Quantity, Average

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Price, Revenue, Gross Margin and Market Share (2021-2026)
2.2.5 Advanced Micro Devices (AMD) Recent Developments/Updates
2.3 Intel Corporation
2.3.1 Intel Corporation Details
2.3.2 Intel Corporation Major Business
2.3.3 Intel Corporation Discrete Graphics Chip Product and Services
2.3.4 Intel Corporation Discrete Graphics Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.3.5 Intel Corporation Recent Developments/Updates
2.4 3DLabs Inc
2.4.1 3DLabs Inc Details
2.4.2 3DLabs Inc Major Business
2.4.3 3DLabs Inc Discrete Graphics Chip Product and Services
2.4.4 3DLabs Inc Discrete Graphics Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.4.5 3DLabs Inc Recent Developments/Updates
2.5 Broadcom Corporation
2.5.1 Broadcom Corporation Details
2.5.2 Broadcom Corporation Major Business
2.5.3 Broadcom Corporation Discrete Graphics Chip Product and Services
2.5.4 Broadcom Corporation Discrete Graphics Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.5.5 Broadcom Corporation Recent Developments/Updates
2.6 ARM Limited
2.6.1 ARM Limited Details
2.6.2 ARM Limited Major Business
2.6.3 ARM Limited Discrete Graphics Chip Product and Services
2.6.4 ARM Limited Discrete Graphics Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.6.5 ARM Limited Recent Developments/Updates
2.7 Qualcomm
2.7.1 Qualcomm Details
2.7.2 Qualcomm Major Business
2.7.3 Qualcomm Discrete Graphics Chip Product and Services
2.7.4 Qualcomm Discrete Graphics Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.7.5 Qualcomm Recent Developments/Updates
2.8 Imagination
2.8.1 Imagination Details

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2.8.2 Imagination Major Business
2.8.3 Imagination Discrete Graphics Chip Product and Services
2.8.4 Imagination Discrete Graphics Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.8.5 Imagination Recent Developments/Updates
2.9 VeriSilicon (Vivante)
2.9.1 VeriSilicon (Vivante) Details
2.9.2 VeriSilicon (Vivante) Major Business
2.9.3 VeriSilicon (Vivante) Discrete Graphics Chip Product and Services
2.9.4 VeriSilicon (Vivante) Discrete Graphics Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.9.5 VeriSilicon (Vivante) Recent Developments/Updates
2.10 Micron Technology
2.10.1 Micron Technology Details
2.10.2 Micron Technology Major Business
2.10.3 Micron Technology Discrete Graphics Chip Product and Services
2.10.4 Micron Technology Discrete Graphics Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.10.5 Micron Technology Recent Developments/Updates
2.11 Apple
2.11.1 Apple Details
2.11.2 Apple Major Business
2.11.3 Apple Discrete Graphics Chip Product and Services
2.11.4 Apple Discrete Graphics Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.11.5 Apple Recent Developments/Updates
2.12 Jing Jiawei
2.12.1 Jing Jiawei Details
2.12.2 Jing Jiawei Major Business
2.12.3 Jing Jiawei Discrete Graphics Chip Product and Services
2.12.4 Jing Jiawei Discrete Graphics Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.12.5 Jing Jiawei Recent Developments/Updates
2.13 Innosilicon
2.13.1 Innosilicon Details
2.13.2 Innosilicon Major Business
2.13.3 Innosilicon Discrete Graphics Chip Product and Services
2.13.4 Innosilicon Discrete Graphics Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

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2.13.5 Innosilicon Recent Developments/Updates
2.14 Tianshu Zhixin
2.14.1 Tianshu Zhixin Details
2.14.2 Tianshu Zhixin Major Business
2.14.3 Tianshu Zhixin Discrete Graphics Chip Product and Services
2.14.4 Tianshu Zhixin Discrete Graphics Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.14.5 Tianshu Zhixin Recent Developments/Updates
2.15 Zhaoxin
2.15.1 Zhaoxin Details
2.15.2 Zhaoxin Major Business
2.15.3 Zhaoxin Discrete Graphics Chip Product and Services
2.15.4 Zhaoxin Discrete Graphics Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.15.5 Zhaoxin Recent Developments/Updates
2.16 Loongson
2.16.1 Loongson Details
2.16.2 Loongson Major Business
2.16.3 Loongson Discrete Graphics Chip Product and Services
2.16.4 Loongson Discrete Graphics Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.16.5 Loongson Recent Developments/Updates
2.17 boarding technology
2.17.1 boarding technology Details
2.17.2 boarding technology Major Business
2.17.3 boarding technology Discrete Graphics Chip Product and Services
2.17.4 boarding technology Discrete Graphics Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.17.5 boarding technology Recent Developments/Updates
2.18 Moore Threads
2.18.1 Moore Threads Details
2.18.2 Moore Threads Major Business
2.18.3 Moore Threads Discrete Graphics Chip Product and Services
2.18.4 Moore Threads Discrete Graphics Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.18.5 Moore Threads Recent Developments/Updates
2.19 Biren Technology
2.19.1 Biren Technology Details
2.19.2 Biren Technology Major Business

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info@marketpublishers.com

2.19.3 Biren Technology Discrete Graphics Chip Product and Services
2.19.4 Biren Technology Discrete Graphics Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.19.5 Biren Technology Recent Developments/Updates
2.20 Huawei
2.20.1 Huawei Details
2.20.2 Huawei Major Business
2.20.3 Huawei Discrete Graphics Chip Product and Services
2.20.4 Huawei Discrete Graphics Chip Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.20.5 Huawei Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: DISCRETE GRAPHICS CHIP BY MANUFACTURER

3.1 Global Discrete Graphics Chip Sales Quantity by Manufacturer (2021-2026)
3.2 Global Discrete Graphics Chip Revenue by Manufacturer (2021-2026)
3.3 Global Discrete Graphics Chip Average Price by Manufacturer (2021-2026)
3.4 Market Share Analysis (2025)
3.4.1 Producer Shipments of Discrete Graphics Chip by Manufacturer Revenue ($MM) and Market Share (%): 2025
3.4.2 Top 3 Discrete Graphics Chip Manufacturer Market Share in 2025
3.4.3 Top 6 Discrete Graphics Chip Manufacturer Market Share in 2025
3.5 Discrete Graphics Chip Market: Overall Company Footprint Analysis
3.5.1 Discrete Graphics Chip Market: Region Footprint
3.5.2 Discrete Graphics Chip Market: Company Product Type Footprint
3.5.3 Discrete Graphics Chip 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 Discrete Graphics Chip Market Size by Region
4.1.1 Global Discrete Graphics Chip Sales Quantity by Region (2021-2032)
4.1.2 Global Discrete Graphics Chip Consumption Value by Region (2021-2032)
4.1.3 Global Discrete Graphics Chip Average Price by Region (2021-2032)
4.2 North America Discrete Graphics Chip Consumption Value (2021-2032)
4.3 Europe Discrete Graphics Chip Consumption Value (2021-2032)
4.4 Asia-Pacific Discrete Graphics Chip Consumption Value (2021-2032)

+357 96 030922
info@marketpublishers.com

4.5 South America Discrete Graphics Chip Consumption Value (2021-2032)
4.6 Middle East & Africa Discrete Graphics Chip Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Discrete Graphics Chip Sales Quantity by Type (2021-2032)
5.2 Global Discrete Graphics Chip Consumption Value by Type (2021-2032)
5.3 Global Discrete Graphics Chip Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Discrete Graphics Chip Sales Quantity by Application (2021-2032)
6.2 Global Discrete Graphics Chip Consumption Value by Application (2021-2032)
6.3 Global Discrete Graphics Chip Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Discrete Graphics Chip Sales Quantity by Type (2021-2032)
7.2 North America Discrete Graphics Chip Sales Quantity by Application (2021-2032)
7.3 North America Discrete Graphics Chip Market Size by Country
  7.3.1 North America Discrete Graphics Chip Sales Quantity by Country (2021-2032)
  7.3.2 North America Discrete Graphics Chip Consumption Value by Country (2021-2032)
  7.3.3 United States Market Size and Forecast (2021-2032)
  7.3.4 Canada Market Size and Forecast (2021-2032)
  7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Discrete Graphics Chip Sales Quantity by Type (2021-2032)
8.2 Europe Discrete Graphics Chip Sales Quantity by Application (2021-2032)
8.3 Europe Discrete Graphics Chip Market Size by Country
  8.3.1 Europe Discrete Graphics Chip Sales Quantity by Country (2021-2032)
  8.3.2 Europe Discrete Graphics Chip Consumption Value by Country (2021-2032)
  8.3.3 Germany Market Size and Forecast (2021-2032)
  8.3.4 France Market Size and Forecast (2021-2032)
  8.3.5 United Kingdom Market Size and Forecast (2021-2032)
  8.3.6 Russia Market Size and Forecast (2021-2032)
  8.3.7 Italy Market Size and Forecast (2021-2032)

+357 96 030922
info@marketpublishers.com

9 ASIA-PACIFIC

9.1 Asia-Pacific Discrete Graphics Chip Sales Quantity by Type (2021-2032)
9.2 Asia-Pacific Discrete Graphics Chip Sales Quantity by Application (2021-2032)
9.3 Asia-Pacific Discrete Graphics Chip Market Size by Region
  9.3.1 Asia-Pacific Discrete Graphics Chip Sales Quantity by Region (2021-2032)
  9.3.2 Asia-Pacific Discrete Graphics Chip Consumption Value by Region (2021-2032)
  9.3.3 China Market Size and Forecast (2021-2032)
  9.3.4 Japan Market Size and Forecast (2021-2032)
  9.3.5 South Korea Market Size and Forecast (2021-2032)
  9.3.6 India Market Size and Forecast (2021-2032)
  9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
  9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Discrete Graphics Chip Sales Quantity by Type (2021-2032)
10.2 South America Discrete Graphics Chip Sales Quantity by Application (2021-2032)
10.3 South America Discrete Graphics Chip Market Size by Country
  10.3.1 South America Discrete Graphics Chip Sales Quantity by Country (2021-2032)
  10.3.2 South America Discrete Graphics Chip Consumption Value by Country (2021-2032)
  10.3.3 Brazil Market Size and Forecast (2021-2032)
  10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Discrete Graphics Chip Sales Quantity by Type (2021-2032)
11.2 Middle East & Africa Discrete Graphics Chip Sales Quantity by Application (2021-2032)
11.3 Middle East & Africa Discrete Graphics Chip Market Size by Country
  11.3.1 Middle East & Africa Discrete Graphics Chip Sales Quantity by Country (2021-2032)
  11.3.2 Middle East & Africa Discrete Graphics Chip Consumption Value by Country (2021-2032)
  11.3.3 Turkey Market Size and Forecast (2021-2032)
  11.3.4 Egypt Market Size and Forecast (2021-2032)
  11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

+357 96 030922
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11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Discrete Graphics Chip Market Drivers
12.2 Discrete Graphics Chip Market Restraints
12.3 Discrete Graphics Chip 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 Discrete Graphics Chip and Key Manufacturers
13.2 Manufacturing Costs Percentage of Discrete Graphics Chip
13.3 Discrete Graphics Chip 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 Discrete Graphics Chip Typical Distributors
14.3 Discrete Graphics Chip Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology
16.2 Research Process and Data Source
16.3 Disclaimer

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Global Discrete Graphics Chip Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
Table 2. Global Discrete Graphics Chip Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Table 3. NVidia Corporation Basic Information, Manufacturing Base and Competitors
Table 4. NVidia Corporation Major Business
Table 5. NVidia Corporation Discrete Graphics Chip Product and Services
Table 6. NVidia Corporation Discrete Graphics Chip Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 7. NVidia Corporation Recent Developments/Updates
Table 8. Advanced Micro Devices (AMD) Basic Information, Manufacturing Base and Competitors
Table 9. Advanced Micro Devices (AMD) Major Business
Table 10. Advanced Micro Devices (AMD) Discrete Graphics Chip Product and Services
Table 11. Advanced Micro Devices (AMD) Discrete Graphics Chip Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 12. Advanced Micro Devices (AMD) Recent Developments/Updates
Table 13. Intel Corporation Basic Information, Manufacturing Base and Competitors
Table 14. Intel Corporation Major Business
Table 15. Intel Corporation Discrete Graphics Chip Product and Services
Table 16. Intel Corporation Discrete Graphics Chip Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 17. Intel Corporation Recent Developments/Updates
Table 18. 3DLabs Inc Basic Information, Manufacturing Base and Competitors
Table 19. 3DLabs Inc Major Business
Table 20. 3DLabs Inc Discrete Graphics Chip Product and Services
Table 21. 3DLabs Inc Discrete Graphics Chip Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 22. 3DLabs Inc Recent Developments/Updates
Table 23. Broadcom Corporation Basic Information, Manufacturing Base and Competitors
Table 24. Broadcom Corporation Major Business

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info@marketpublishers.com

Table 25. Broadcom Corporation Discrete Graphics Chip Product and Services
Table 26. Broadcom Corporation Discrete Graphics Chip Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 27. Broadcom Corporation Recent Developments/Updates
Table 28. ARM Limited Basic Information, Manufacturing Base and Competitors
Table 29. ARM Limited Major Business
Table 30. ARM Limited Discrete Graphics Chip Product and Services
Table 31. ARM Limited Discrete Graphics Chip Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 32. ARM Limited Recent Developments/Updates
Table 33. Qualcomm Basic Information, Manufacturing Base and Competitors
Table 34. Qualcomm Major Business
Table 35. Qualcomm Discrete Graphics Chip Product and Services
Table 36. Qualcomm Discrete Graphics Chip Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 37. Qualcomm Recent Developments/Updates
Table 38. Imagination Basic Information, Manufacturing Base and Competitors
Table 39. Imagination Major Business
Table 40. Imagination Discrete Graphics Chip Product and Services
Table 41. Imagination Discrete Graphics Chip Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 42. Imagination Recent Developments/Updates
Table 43. VeriSilicon (Vivante) Basic Information, Manufacturing Base and Competitors
Table 44. VeriSilicon (Vivante) Major Business
Table 45. VeriSilicon (Vivante) Discrete Graphics Chip Product and Services
Table 46. VeriSilicon (Vivante) Discrete Graphics Chip Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 47. VeriSilicon (Vivante) Recent Developments/Updates
Table 48. Micron Technology Basic Information, Manufacturing Base and Competitors
Table 49. Micron Technology Major Business
Table 50. Micron Technology Discrete Graphics Chip Product and Services
Table 51. Micron Technology Discrete Graphics Chip Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 52. Micron Technology Recent Developments/Updates
Table 53. Apple Basic Information, Manufacturing Base and Competitors
Table 54. Apple Major Business

+357 96 030922
info@marketpublishers.com

Table 55. Apple Discrete Graphics Chip Product and Services
Table 56. Apple Discrete Graphics Chip Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 57. Apple Recent Developments/Updates
Table 58. Jing Jiawei Basic Information, Manufacturing Base and Competitors
Table 59. Jing Jiawei Major Business
Table 60. Jing Jiawei Discrete Graphics Chip Product and Services
Table 61. Jing Jiawei Discrete Graphics Chip Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 62. Jing Jiawei Recent Developments/Updates
Table 63. Innosilicon Basic Information, Manufacturing Base and Competitors
Table 64. Innosilicon Major Business
Table 65. Innosilicon Discrete Graphics Chip Product and Services
Table 66. Innosilicon Discrete Graphics Chip Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 67. Innosilicon Recent Developments/Updates
Table 68. Tianshu Zhixin Basic Information, Manufacturing Base and Competitors
Table 69. Tianshu Zhixin Major Business
Table 70. Tianshu Zhixin Discrete Graphics Chip Product and Services
Table 71. Tianshu Zhixin Discrete Graphics Chip Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 72. Tianshu Zhixin Recent Developments/Updates
Table 73. Zhaoxin Basic Information, Manufacturing Base and Competitors
Table 74. Zhaoxin Major Business
Table 75. Zhaoxin Discrete Graphics Chip Product and Services
Table 76. Zhaoxin Discrete Graphics Chip Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 77. Zhaoxin Recent Developments/Updates
Table 78. Loongson Basic Information, Manufacturing Base and Competitors
Table 79. Loongson Major Business
Table 80. Loongson Discrete Graphics Chip Product and Services
Table 81. Loongson Discrete Graphics Chip Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 82. Loongson Recent Developments/Updates
Table 83. boarding technology Basic Information, Manufacturing Base and Competitors
Table 84. boarding technology Major Business
Table 85. boarding technology Discrete Graphics Chip Product and Services
Table 86. boarding technology Discrete Graphics Chip Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share

+357 96 030922
info@marketpublishers.com

(2021-2026)
Table 87. boarding technology Recent Developments/Updates
Table 88. Moore Threads Basic Information, Manufacturing Base and Competitors
Table 89. Moore Threads Major Business
Table 90. Moore Threads Discrete Graphics Chip Product and Services
Table 91. Moore Threads Discrete Graphics Chip Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 92. Moore Threads Recent Developments/Updates
Table 93. Biren Technology Basic Information, Manufacturing Base and Competitors
Table 94. Biren Technology Major Business
Table 95. Biren Technology Discrete Graphics Chip Product and Services
Table 96. Biren Technology Discrete Graphics Chip Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Biren Technology Recent Developments/Updates
Table 98. Huawei Basic Information, Manufacturing Base and Competitors
Table 99. Huawei Major Business
Table 100. Huawei Discrete Graphics Chip Product and Services
Table 101. Huawei Discrete Graphics Chip Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 102. Huawei Recent Developments/Updates
Table 103. Global Discrete Graphics Chip Sales Quantity by Manufacturer (2021-2026) & (Million Units)
Table 104. Global Discrete Graphics Chip Revenue by Manufacturer (2021-2026) & (USD Million)
Table 105. Global Discrete Graphics Chip Average Price by Manufacturer (2021-2026) & (US$/Unit)
Table 106. Market Position of Manufacturers in Discrete Graphics Chip, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
Table 107. Head Office and Discrete Graphics Chip Production Site of Key Manufacturer
Table 108. Discrete Graphics Chip Market: Company Product Type Footprint
Table 109. Discrete Graphics Chip Market: Company Product Application Footprint
Table 110. Discrete Graphics Chip New Market Entrants and Barriers to Market Entry
Table 111. Discrete Graphics Chip Mergers, Acquisition, Agreements, and Collaborations
Table 112. Global Discrete Graphics Chip Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

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Table 113. Global Discrete Graphics Chip Sales Quantity by Region (2021-2026) & (Million Units)
Table 114. Global Discrete Graphics Chip Sales Quantity by Region (2027-2032) & (Million Units)
Table 115. Global Discrete Graphics Chip Consumption Value by Region (2021-2026) & (USD Million)
Table 116. Global Discrete Graphics Chip Consumption Value by Region (2027-2032) & (USD Million)
Table 117. Global Discrete Graphics Chip Average Price by Region (2021-2026) & (US$/Unit)
Table 118. Global Discrete Graphics Chip Average Price by Region (2027-2032) & (US$/Unit)
Table 119. Global Discrete Graphics Chip Sales Quantity by Type (2021-2026) & (Million Units)
Table 120. Global Discrete Graphics Chip Sales Quantity by Type (2027-2032) & (Million Units)
Table 121. Global Discrete Graphics Chip Consumption Value by Type (2021-2026) & (USD Million)
Table 122. Global Discrete Graphics Chip Consumption Value by Type (2027-2032) & (USD Million)
Table 123. Global Discrete Graphics Chip Average Price by Type (2021-2026) & (US$/Unit)
Table 124. Global Discrete Graphics Chip Average Price by Type (2027-2032) & (US$/Unit)
Table 125. Global Discrete Graphics Chip Sales Quantity by Application (2021-2026) & (Million Units)
Table 126. Global Discrete Graphics Chip Sales Quantity by Application (2027-2032) & (Million Units)
Table 127. Global Discrete Graphics Chip Consumption Value by Application (2021-2026) & (USD Million)
Table 128. Global Discrete Graphics Chip Consumption Value by Application (2027-2032) & (USD Million)
Table 129. Global Discrete Graphics Chip Average Price by Application (2021-2026) & (US$/Unit)
Table 130. Global Discrete Graphics Chip Average Price by Application (2027-2032) & (US$/Unit)
Table 131. North America Discrete Graphics Chip Sales Quantity by Type (2021-2026) & (Million Units)
Table 132. North America Discrete Graphics Chip Sales Quantity by Type (2027-2032)

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& (Million Units)
Table 133. North America Discrete Graphics Chip Sales Quantity by Application (2021-2026) & (Million Units)
Table 134. North America Discrete Graphics Chip Sales Quantity by Application (2027-2032) & (Million Units)
Table 135. North America Discrete Graphics Chip Sales Quantity by Country (2021-2026) & (Million Units)
Table 136. North America Discrete Graphics Chip Sales Quantity by Country (2027-2032) & (Million Units)
Table 137. North America Discrete Graphics Chip Consumption Value by Country (2021-2026) & (USD Million)
Table 138. North America Discrete Graphics Chip Consumption Value by Country (2027-2032) & (USD Million)
Table 139. Europe Discrete Graphics Chip Sales Quantity by Type (2021-2026) & (Million Units)
Table 140. Europe Discrete Graphics Chip Sales Quantity by Type (2027-2032) & (Million Units)
Table 141. Europe Discrete Graphics Chip Sales Quantity by Application (2021-2026) & (Million Units)
Table 142. Europe Discrete Graphics Chip Sales Quantity by Application (2027-2032) & (Million Units)
Table 143. Europe Discrete Graphics Chip Sales Quantity by Country (2021-2026) & (Million Units)
Table 144. Europe Discrete Graphics Chip Sales Quantity by Country (2027-2032) & (Million Units)
Table 145. Europe Discrete Graphics Chip Consumption Value by Country (2021-2026) & (USD Million)
Table 146. Europe Discrete Graphics Chip Consumption Value by Country (2027-2032) & (USD Million)
Table 147. Asia-Pacific Discrete Graphics Chip Sales Quantity by Type (2021-2026) & (Million Units)
Table 148. Asia-Pacific Discrete Graphics Chip Sales Quantity by Type (2027-2032) & (Million Units)
Table 149. Asia-Pacific Discrete Graphics Chip Sales Quantity by Application (2021-2026) & (Million Units)
Table 150. Asia-Pacific Discrete Graphics Chip Sales Quantity by Application (2027-2032) & (Million Units)
Table 151. Asia-Pacific Discrete Graphics Chip Sales Quantity by Region (2021-2026) & (Million Units)

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Table 152. Asia-Pacific Discrete Graphics Chip Sales Quantity by Region (2027-2032) & (Million Units)
Table 153. Asia-Pacific Discrete Graphics Chip Consumption Value by Region (2021-2026) & (USD Million)
Table 154. Asia-Pacific Discrete Graphics Chip Consumption Value by Region (2027-2032) & (USD Million)
Table 155. South America Discrete Graphics Chip Sales Quantity by Type (2021-2026) & (Million Units)
Table 156. South America Discrete Graphics Chip Sales Quantity by Type (2027-2032) & (Million Units)
Table 157. South America Discrete Graphics Chip Sales Quantity by Application (2021-2026) & (Million Units)
Table 158. South America Discrete Graphics Chip Sales Quantity by Application (2027-2032) & (Million Units)
Table 159. South America Discrete Graphics Chip Sales Quantity by Country (2021-2026) & (Million Units)
Table 160. South America Discrete Graphics Chip Sales Quantity by Country (2027-2032) & (Million Units)
Table 161. South America Discrete Graphics Chip Consumption Value by Country (2021-2026) & (USD Million)
Table 162. South America Discrete Graphics Chip Consumption Value by Country (2027-2032) & (USD Million)
Table 163. Middle East & Africa Discrete Graphics Chip Sales Quantity by Type (2021-2026) & (Million Units)
Table 164. Middle East & Africa Discrete Graphics Chip Sales Quantity by Type (2027-2032) & (Million Units)
Table 165. Middle East & Africa Discrete Graphics Chip Sales Quantity by Application (2021-2026) & (Million Units)
Table 166. Middle East & Africa Discrete Graphics Chip Sales Quantity by Application (2027-2032) & (Million Units)
Table 167. Middle East & Africa Discrete Graphics Chip Sales Quantity by Country (2021-2026) & (Million Units)
Table 168. Middle East & Africa Discrete Graphics Chip Sales Quantity by Country (2027-2032) & (Million Units)
Table 169. Middle East & Africa Discrete Graphics Chip Consumption Value by Country (2021-2026) & (USD Million)
Table 170. Middle East & Africa Discrete Graphics Chip Consumption Value by Country (2027-2032) & (USD Million)
Table 171. Discrete Graphics Chip Raw Material

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Table 172. Key Manufacturers of Discrete Graphics Chip Raw Materials
Table 173. Discrete Graphics Chip Typical Distributors
Table 174. Discrete Graphics Chip Typical Customers

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List Of Figures

LIST OF FIGURES

Figure 1. Discrete Graphics Chip Picture
Figure 2. Global Discrete Graphics Chip Revenue by Type, (USD Million), 2021 & 2025 & 2032
Figure 3. Global Discrete Graphics Chip Revenue Market Share by Type in 2025
Figure 4. Consumer Grade Discrete GPU Examples
Figure 5. Professional Grade Discrete GPU Examples
Figure 6. Data Center Grade Discrete GPU Examples
Figure 7. Global Discrete Graphics Chip Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 8. Global Discrete Graphics Chip Revenue Market Share by Application in 2025
Figure 9. Integrated Graphics Processing Unit Examples
Figure 10. Data Center Examples
Figure 11. Professional Visualization Examples
Figure 12. Car Examples
Figure 13. Others Examples
Figure 14. Global Discrete Graphics Chip Consumption Value, (USD Million): 2021 & 2025 & 2032
Figure 15. Global Discrete Graphics Chip Consumption Value and Forecast (2021-2032) & (USD Million)
Figure 16. Global Discrete Graphics Chip Sales Quantity (2021-2032) & (Million Units)
Figure 17. Global Discrete Graphics Chip Price (2021-2032) & (US$/Unit)
Figure 18. Global Discrete Graphics Chip Sales Quantity Market Share by Manufacturer in 2025
Figure 19. Global Discrete Graphics Chip Revenue Market Share by Manufacturer in 2025
Figure 20. Producer Shipments of Discrete Graphics Chip by Manufacturer Sales ($MM) and Market Share (%): 2025
Figure 21. Top 3 Discrete Graphics Chip Manufacturer (Revenue) Market Share in 2025
Figure 22. Top 6 Discrete Graphics Chip Manufacturer (Revenue) Market Share in 2025
Figure 23. Global Discrete Graphics Chip Sales Quantity Market Share by Region (2021-2032)
Figure 24. Global Discrete Graphics Chip Consumption Value Market Share by Region (2021-2032)
Figure 25. North America Discrete Graphics Chip Consumption Value (2021-2032) & (USD Million)

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Figure 26. Europe Discrete Graphics Chip Consumption Value (2021-2032) & (USD Million)
Figure 27. Asia-Pacific Discrete Graphics Chip Consumption Value (2021-2032) & (USD Million)
Figure 28. South America Discrete Graphics Chip Consumption Value (2021-2032) & (USD Million)
Figure 29. Middle East & Africa Discrete Graphics Chip Consumption Value (2021-2032) & (USD Million)
Figure 30. Global Discrete Graphics Chip Sales Quantity Market Share by Type (2021-2032)
Figure 31. Global Discrete Graphics Chip Consumption Value Market Share by Type (2021-2032)
Figure 32. Global Discrete Graphics Chip Average Price by Type (2021-2032) & (US$/Unit)
Figure 33. Global Discrete Graphics Chip Sales Quantity Market Share by Application (2021-2032)
Figure 34. Global Discrete Graphics Chip Revenue Market Share by Application (2021-2032)
Figure 35. Global Discrete Graphics Chip Average Price by Application (2021-2032) & (US$/Unit)
Figure 36. North America Discrete Graphics Chip Sales Quantity Market Share by Type (2021-2032)
Figure 37. North America Discrete Graphics Chip Sales Quantity Market Share by Application (2021-2032)
Figure 38. North America Discrete Graphics Chip Sales Quantity Market Share by Country (2021-2032)
Figure 39. North America Discrete Graphics Chip Consumption Value Market Share by Country (2021-2032)
Figure 40. United States Discrete Graphics Chip Consumption Value (2021-2032) & (USD Million)
Figure 41. Canada Discrete Graphics Chip Consumption Value (2021-2032) & (USD Million)
Figure 42. Mexico Discrete Graphics Chip Consumption Value (2021-2032) & (USD Million)
Figure 43. Europe Discrete Graphics Chip Sales Quantity Market Share by Type (2021-2032)
Figure 44. Europe Discrete Graphics Chip Sales Quantity Market Share by Application (2021-2032)
Figure 45. Europe Discrete Graphics Chip Sales Quantity Market Share by Country

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(2021-2032)
Figure 46. Europe Discrete Graphics Chip Consumption Value Market Share by Country (2021-2032)
Figure 47. Germany Discrete Graphics Chip Consumption Value (2021-2032) & (USD Million)
Figure 48. France Discrete Graphics Chip Consumption Value (2021-2032) & (USD Million)
Figure 49. United Kingdom Discrete Graphics Chip Consumption Value (2021-2032) & (USD Million)
Figure 50. Russia Discrete Graphics Chip Consumption Value (2021-2032) & (USD Million)
Figure 51. Italy Discrete Graphics Chip Consumption Value (2021-2032) & (USD Million)
Figure 52. Asia-Pacific Discrete Graphics Chip Sales Quantity Market Share by Type (2021-2032)
Figure 53. Asia-Pacific Discrete Graphics Chip Sales Quantity Market Share by Application (2021-2032)
Figure 54. Asia-Pacific Discrete Graphics Chip Sales Quantity Market Share by Region (2021-2032)
Figure 55. Asia-Pacific Discrete Graphics Chip Consumption Value Market Share by Region (2021-2032)
Figure 56. China Discrete Graphics Chip Consumption Value (2021-2032) & (USD Million)
Figure 57. Japan Discrete Graphics Chip Consumption Value (2021-2032) & (USD Million)
Figure 58. South Korea Discrete Graphics Chip Consumption Value (2021-2032) & (USD Million)
Figure 59. India Discrete Graphics Chip Consumption Value (2021-2032) & (USD Million)
Figure 60. Southeast Asia Discrete Graphics Chip Consumption Value (2021-2032) & (USD Million)
Figure 61. Australia Discrete Graphics Chip Consumption Value (2021-2032) & (USD Million)
Figure 62. South America Discrete Graphics Chip Sales Quantity Market Share by Type (2021-2032)
Figure 63. South America Discrete Graphics Chip Sales Quantity Market Share by Application (2021-2032)
Figure 64. South America Discrete Graphics Chip Sales Quantity Market Share by Country (2021-2032)

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Figure 65. South America Discrete Graphics Chip Consumption Value Market Share by Country (2021-2032)
Figure 66. Brazil Discrete Graphics Chip Consumption Value (2021-2032) & (USD Million)
Figure 67. Argentina Discrete Graphics Chip Consumption Value (2021-2032) & (USD Million)
Figure 68. Middle East & Africa Discrete Graphics Chip Sales Quantity Market Share by Type (2021-2032)
Figure 69. Middle East & Africa Discrete Graphics Chip Sales Quantity Market Share by Application (2021-2032)
Figure 70. Middle East & Africa Discrete Graphics Chip Sales Quantity Market Share by Country (2021-2032)
Figure 71. Middle East & Africa Discrete Graphics Chip Consumption Value Market Share by Country (2021-2032)
Figure 72. Turkey Discrete Graphics Chip Consumption Value (2021-2032) & (USD Million)
Figure 73. Egypt Discrete Graphics Chip Consumption Value (2021-2032) & (USD Million)
Figure 74. Saudi Arabia Discrete Graphics Chip Consumption Value (2021-2032) & (USD Million)
Figure 75. South Africa Discrete Graphics Chip Consumption Value (2021-2032) & (USD Million)
Figure 76. Discrete Graphics Chip Market Drivers
Figure 77. Discrete Graphics Chip Market Restraints
Figure 78. Discrete Graphics Chip Market Trends
Figure 79. Porters Five Forces Analysis
Figure 80. Manufacturing Cost Structure Analysis of Discrete Graphics Chip in 2025
Figure 81. Manufacturing Process Analysis of Discrete Graphics Chip
Figure 82. Discrete Graphics Chip 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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