

Global Discrete GPU Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Discrete GPU market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

A discrete GPU is a Graphics Processing Unit that is not part of the CPU, ie, it's a separate add in board or a separate chip on the system board (usually in laptops and AIOs.)

Discrete GPUs may further improve performance, energy efficiency and functionality. For example, through more advanced manufacturing processes, the computing efficiency and performance of the GPU can be improved, and through more efficient memory and storage management, the overall energy efficiency of the GPU can be improved. As computing demands continue to grow, especially in fields such as AI, big data, and cloud computing, the market demand for discrete GPUs is likely to continue to grow. These areas require significant computing power, and the flexibility and scalability of discrete GPUs make it an attractive option.

The Global Info Research report includes an overview of the development of the Discrete GPU industry chain, the market status of Consumer electronics (X86 Architecture, ARM Architecture), Server (X86 Architecture, ARM Architecture), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Discrete GPU.

Regionally, the report analyzes the Discrete GPU markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global

Discrete GPU market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Discrete GPU market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Discrete GPU industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., X86 Architecture, ARM Architecture).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Discrete GPU market.

Regional Analysis: The report involves examining the Discrete GPU market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Discrete GPU market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Discrete GPU:

Company Analysis: Report covers individual Discrete GPU manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Discrete GPU This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Consumer electronics,

Server).

Technology Analysis: Report covers specific technologies relevant to Discrete GPU. It assesses the current state, advancements, and potential future developments in Discrete GPU areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Discrete GPU market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Discrete GPU market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

X86 Architecture

ARM Architecture

Others

Market segment by Application

Consumer electronics

Server

Automotive

Banking, financial services, and insurance (BFSI)

Aerospace and defense

Medical

Industrial

Others

Major players covered

Advanced Micro Devices (US)

IBM Corporation (US)

Texas Instruments Incorporated (US)

Nvidia Corporation (US)

NXP Semiconductors (Netherlands)

Samsung Electronics (South Korea)

MediaTek (Taiwan)

Renesas Electronics Corporation (Japan)

Broadcom Limited (US)

Microchip Technology Incorporated (US?)

Marvell Technology Group Ltd (US)

Toshiba (Japan)

Spreadtrum Communications (China)

Allwinner Technology Co (China)

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 GPU product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Discrete GPU, with price, sales, revenue and global market share of Discrete GPU from 2019 to 2024.

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

Chapter 4, the Discrete GPU breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Discrete GPU market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 GPU.

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

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