

Global Graphics Processing Unit (GPU) Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Graphics Processing Unit (GPU) market size will reach 55,247 Million USD in 2025 and is projected to reach 114,051 Million USD by 2032, with a CAGR of 10.91% (2025-2032). Notably, the China Graphics Processing Unit (GPU) market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

A Graphics Processing Unit (GPU) is a specialized electronic circuit that accelerates the processing of graphics and visual data in a computer system. Unlike a Central Processing Unit (CPU), which handles general-purpose computing tasks, a GPU is designed specifically for parallel processing of large volumes of data required for rendering images, videos, and complex graphics. GPUs excel at performing multiple calculations simultaneously, making them well-suited for tasks such as 3D rendering, video playback, and image processing. They have become indispensable in various applications, including gaming, scientific simulations, artificial intelligence, and machine learning, where the parallel processing capabilities of GPUs can significantly boost computational performance. Modern GPUs often come with their own dedicated video memory (VRAM) and are an integral part of graphics cards, contributing significantly to the overall visual and computational capabilities of contemporary computing systems.

The major global manufacturers of Graphics Processing Unit (GPU) include Nvidia Corporation, Advanced Micro Devices (AMD), Intel Corporation, ARM Limited,

Qualcomm, Apple, Imagination, Jing Jiawei, VeriSilicon, Tianshu Zhixin, Zhaoxin, Moore Threads, Innosilicon, Shanghai Denglin Technology, Biren Technology, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Graphics Processing Unit (GPU). Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Graphics Processing Unit (GPU) market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Graphics Processing Unit (GPU) market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Graphics Processing Unit (GPU) industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Graphics Processing Unit (GPU) Include:

Nvidia Corporation

Advanced Micro Devices (AMD)

Intel Corporation

ARM Limited

Qualcomm

Apple

Imagination

Jing Jiawei

VeriSilicon

Tianshu Zhixin

Zhaoxin

Moore Threads

Innosilicon

Shanghai Denglin Technology

Biren Technology

Graphics Processing Unit (GPU) Product Segment Include:

Discrete Graphics Processor

Integrated Graphics Processor

Graphics Processing Unit (GPU) Product Application Include:

Games and Entertainment

Data Center

Professional visualization

Car

Others

Chapter Scope

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