

Global Graphics Processing Unit (GPU) Market Growth 2025-2031

<https://marketpublishers.com/r/GE909E47BE88EN.html>

Date: January 2024

Pages: 125

Price: US\$ 3,660.00 (Single User License)

ID: GE909E47BE88EN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

The global Graphics Processing Unit (GPU) market size is predicted to grow from US\$ 45370 million in 2025 to US\$ 89670 million in 2031; it is expected to grow at a CAGR of 12.0% from 2025 to 2031.

GPU, also known as display core, visual processor and display chip, is mainly used as the computing core of graphics card to solve the problem of graphics rendering.

At the beginning of PC's birth, there was no concept of GPU, and all graphics calculation was done by CPU. However, the speed of using CPU to do graphics calculation is slow, so a special graphics accelerator card is designed to help with graphics calculation. Later, NVIDIA proposed the concept of GPU, which promoted the GPU to the status of a separate computing unit. CPU is generally composed of logic operation unit, control unit and storage unit. Although the CPU has multiple cores, the total number is not more than two digits, and each core has enough cache; the CPU has enough number and logical operation units, and has many hardware to accelerate branch judgment and even more complex logical judgment. Therefore, the CPU has super logical ability.

Compared with CPU, the advantage of GPU lies in multi-core, the number of cores is far more than that of CPU, which can reach hundreds, each core has relatively small cache, and digital logic operation unit is small and simple; while CPU generally only has 8 cores at most, which is generally used to process calculation data with more complex calculation amount. Therefore, GPU is more suitable for data parallel computing than CPU. When rendering graphics, a large number of 3D coordinates need to be converted

into 2D coordinates, and the coordinates of each individual position must be calculated. Although the coordinate calculation is not complicated, the huge amount of data is not borne by CPU. If CPU is used to calculate, it will not only waste the huge computing power of ALU, but also its parallel data processing ability is not enough.

Global 5 largest manufacturers of Graphics Processing Unit (GPU) 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 Processing Unit (GPU) can be divided into two types: Independent GPU and Integrated GPU. Independent GPU occupies the largest share of the total market, more than 95%. In terms of product application, Graphics Processing Unit (GPU) 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%.

LP Information, Inc. (LPI) ' newest research report, the "Graphics Processing Unit (GPU) Industry Forecast" looks at past sales and reviews total world Graphics Processing Unit (GPU) sales in 2024, providing a comprehensive analysis by region and market sector of projected Graphics Processing Unit (GPU) sales for 2025 through 2031. With Graphics Processing Unit (GPU) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Graphics Processing Unit (GPU) industry.

This Insight Report provides a comprehensive analysis of the global Graphics Processing Unit (GPU) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Graphics Processing Unit (GPU) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Graphics Processing Unit (GPU) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Graphics Processing Unit (GPU) and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced

view of the current state and future trajectory in the global Graphics Processing Unit (GPU).

This report presents a comprehensive overview, market shares, and growth opportunities of Graphics Processing Unit (GPU) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Discrete Graphics Processor

Integrated Graphics Processor

Segmentation by Application:

Games and Entertainment

Data center

Professional visualization

Car

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Nvidia Corporation

Advanced Micro Devices (AMD)

Intel Corporation

ARM Limited

Qualcomm

Apple

Imagination

Jing Jiawei

VeriSilicon

Tianshu Zhixin

Zhaoxin

moore thread

boarding technology

Innosilicon

Biren Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Graphics Processing Unit (GPU) market?

What factors are driving Graphics Processing Unit (GPU) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Graphics Processing Unit (GPU) market opportunities vary by end market size?

How does Graphics Processing Unit (GPU) break out by Type, by Application?

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