

Global Graphics Processing Unit (GPU) Market Research Report 2022 Professional Edition

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Abstracts

The global Graphics Processing Unit (GPU) market was valued at 1853.96 Million USD in 2021 and will grow with a CAGR of 7.6% from 2021 to 2027, based on HNY Research newly published report.

The prime objective of this report is to provide the insights on the post COVID-19 impact wwhich will help market players in this field evaluate their business approaches. Also, this report covers market segmentation by major market verdors, types, applications/end users and geography(North America, East Asia, Europe, South Asia, Southeast Asia, Middle East, Africa, Oceania, South America).

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. In terms of product types, Graphics Processing Unit (GPU) can be divided into two types: Independent GPU and Integrated GPU. In 2019, Integrated GPU occupies the largest share of the total market, more than 50%. In terms of product application, Graphics Processing Unit (GPU) is mainly used in Desktop Computers and Notebook Computers. In 2019, Notebook Computers occupy the largest share of the total market, about 55%.

By Market Verdors:
NVIDIA Corporation
AMD (ATI)
Intel
ARM Limited
Qualcomm
Imagination Technologies Group
VeriSilicon (Vivante)
By Types:
Independent GPU
Integrated GPU
By Applications:
Desktop Computer
Notebook Computer



Key Indicators Analysed

Market Players & Competitor Analysis: The report covers the key players of the industry including Company Profile, Product Specifications, Production Capacity/Sales, Revenue, Price and Gross Margin 2016-2027 & Sales with a thorough analysis of the market?s competitive landscape and detailed information on vendors and comprehensive details of factors that will challenge the growth of major market vendors.

Global and Regional Market Analysis: The report includes Global & Regional market status and outlook 2016-2027. Further the report provides break down details about each region & countries covered in the report. Identifying its sales, sales volume & revenue forecast. With detailed analysis by types and applications.

Market Trends: Market key trends which include Increased Competition and Continuous Innovations.

Opportunities and Drivers: Identifying the Growing Demands and New Technology

Porters Five Force Analysis: The report provides with the state of competition in industry depending on five basic forces: threat of new entrants, bargaining power of suppliers, bargaining power of buyers, threat of substitute products or services, and existing industry rivalry.

Key Reasons to Purchase

To gain insightful analyses of the market and have comprehensive understanding of the global market and its commercial landscape.

Assess the production processes, major issues, and solutions to mitigate the development risk.

To understand the most affecting driving and restraining forces in the market and its impact in the global market.

Learn about the market strategies that are being adopted by leading respective organizations.

To understand the future outlook and prospects for the market.



Besides the standard structure reports, we also provide custom research according to specific requirements



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