

# Global GPU Market Predicted to Achieve Significant Growth, growing at a CAGR of 22.04% from 2024-2030

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/EINPresswire.com/ -- Key contents of the [Global GPU Market](#) report include:-

- Market size & Forecast segmented by Geography, Type, Device and Industry.
- Technology trends, Challenges, and Emerging Technologies in [GPU Market](#)
- Increasing demand for gaming and high-performance computing.
- Competitive landscape and market share of leading vendors
- Supply chain constraints and semiconductor shortages

Significant growth in the GPU (Graphics Processing Unit) market is driven by increasing demand for high-performance computing, expanding artificial intelligence (AI) and machine

learning applications, as well as technological advancements. According to the latest market study by Mobility Foresights, the "Global GPU Market Market 2024-2030" is expected to grow at a compound annual growth rate (CAGR) of 22.04%.

## Market Overview:

The global [Graphics Processing Unit market](#) is anticipated to record a compound annual growth of 22.05% from 2024-2030. There are two essential motives for this predicted boom: The first one is that there are enormous advancements taking location inside the gaming industry thereby increasing demand for these GPUs which are utilized for Artificial Intelligence (AI); whilst the second cause is their large use in cloud computing in addition to self-driving vehicles. Major players in this area consist of AMD; Intel Corporation; NVIDIA Corporation (NVDA) and ARM Holdings Plc (ARMH).

The logo for Mobility Foresights, featuring the words "Mobility" and "Foresights" in a bold, black, sans-serif font. A green line with a circular end connects the "i" in "Mobility" to the "o" in "Foresights".

Emerging technologies and markets in Asia-Pacific, Latin America, and Africa have big growth prospects, even though they face a few obstacles just as the upward thrust of fees and supply chain disruptions. In North America, those possibilities are first-rate explored with the quickest growth being witnessed in Asia Pacific. Major trends are AI integration, quantum computing advances, and strength efficient structures to make sure that the market continues to develop.

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#### Key Growth Drivers:

The marketplace for GPUs is in the main pushed by way of the gaming region, wherein the want for immersive, excessive-decision gaming reviews keeps using the development of the new GPU era.

GPUs' parallel processing abilities make them indispensable for AI and system mastering packages, which is why they're in excessive demand in industries like healthcare, banking, and independent cars.

The market is expected to boom drastically due to the growing reliance of cloud services and factories on GPUs for duties like virtualization, records processing, and elaborate simulations.

#### KEY FINDINGS:-

- The greatest market for GPUs is the commercial enterprise, which is observed by using cloud computing, AI, and device gaining knowledge of, and the automobile industry, which is increasing fast due to the need for data center expansion and the increase of autonomous automobiles especially.
- Particularly for AI and deep learning, new traits in GPU layout, like AMD's RDNA architectures and NVIDIA's Ampere architectures, are enabling new competencies, strength efficiency, and performance gains.
- Because it has a huge variety of GPU manufacturers and a sturdy adoption charge in cloud computing, AI, and gaming, North America dominates the enterprise. Due to its robust production and high level of patron electronics, Asia Pacific is the area with the fastest rate of increase.
- Major companies within the industry encompass Nvidia, AMD, Intel, and ARM. These companies use acquisitions, partnerships, and innovation to propel marketplace expansion.
- GPU integration with cutting-edge technologies like part computing, 5G, and AR/VR will open up new marketplace development possibilities. GPUs are necessary for this generation to feature greater correctly and productively.
- The marketplace is confronted with boundaries along with supply chain interruptions and shortages of semiconductors, which impact the manufacture and accessibility of GPUs. Growth is

nonetheless being fueled by way of excessive calls for in spite of these boundaries.

- As excessive-performance GPUs consume more power, it's becoming more and more essential to expand GPU designs that are power-efficient. Innovations aiming at cutting power use while maintaining running performance are the outcome of this attempt.

- The mining industry's want for GPUs is prompted by the volatility of the cryptocurrency marketplace. GPU sales are boosted by periods of excessive cryptocurrency values, but marketplace volatility may cause a sharp decline.

- Multiple industries are picking up AI to improve efficiency in their processes including Healthcare, Industrial Automation, Manufacturing, and Finance which will boost the GPU market as implementation will increase in these industries

“Due to growing demand across industries and technical improvements, the worldwide GPU market is expected to rise rapidly. Important players like NVIDIA, AMD, Intel, and ARM will continue to innovate and compete, reshaping the GPU business landscape, despite obstacles like supply chain disruptions and growing costs. These opportunities also present great future expansion prospects.”

- Karthik Heroor

Regional Insights:-

North America

Major GPU producers like NVIDIA and AMD are based totally in North America, especially inside the US. In the GPU enterprise, the area is mainly the manner of technological advancement and innovation. The gaming quarter, AI research, information centers, and cryptocurrency mining are driving huge demand for GPUs.

Europe

The gaming, car, and industrial industries are driving the growth of the GPU enterprise in Europe. Regulations in Europe surround a strong emphasis on sustainability and the power economic system, which forces GPU makers to innovate.

Asia-Pacific Region:

With international locations like South Korea and Taiwan (home of TSMC) gambling sizable roles in supply chains and manufacturing, the Asia-Pacific vicinity is a chief hub for GPUs. China, Japan, and South Korea are tremendous GPU markets fueled by the artificial intelligence sector and upgrades in gaming and other systems.

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## Market Challenges:

Supply chain disruptions: The production of GPUs became notably disrupted by way of semiconductor shortages and logistics constraints, which resulted in better expenses and delays.

High Demand and Scalping: The extended call for GPUs introduced via gaming, cryptocurrency mining, and AI programs has led to problems like scalping, which makes it hard for everyday customers to purchase GPUs at honest fees.

Market saturation and fierce contention: As increasingly more competitors enter the market, there may be fierce competition, a charge struggle, and dwindling profitability. It is mainly difficult for smaller businesses to compete with larger corporations like Nvidia and AMD.

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## Recent Launches in the Global GPU Market:-

### NVIDIA GeForce RTX 40:

GeForce RTX 4090: NVIDIA's pinnacle GPU, the RTX 4090 was unveiled in October 2022 and offers remarkable overall performance upgrades. It has DLSS 3. Zero technology, improved ray tracing abilities, and the new Ada Lovelace structure.

GeForce RTX 4080: This RTX forty collection card gives excellent overall performance for each business and gaming application. Ada Lovelace's structure, with AI-powered rendering of electricity and performance improvements, may be determined in this.

### Radeon RX7000 Series from AMD:

RX 7800 XT and RX 7700 XT portrait cards: These 2023-launched GPUs are geared toward the mid-to excessive-cease segment and offer robust overall performance for processing media and gaming at an inexpensive fee.

## Future Outlook:-

GPU demand will increase as AI and device studying applications proliferate in sectors together with healthcare, finance, retail, and automobiles.

Future GPUs could be capable of taking care of complex AI duties and real-time statistics processing with their more desirable processing power and energy performance.

Demand for GPUs remains in large part driven by means of the gaming industry, as customers are seeking effective GPUs for immersive stories like 4K and VR gaming.

The growing recognition of eSports will boom call for stylish GPUs as hobbyists and professionals alike buy contemporary tools.

In order to guide facts-intensive programs like big statistics analytics and real-time processing, effective GPUs may be required as information centers and cloud computing offerings proliferate.

Cloud carrier providers will hold to apply GPUs to supply AI and device learning as a provider, further growing demand.

Key Benefits for Stakeholders:-

**Quantitative Market Analysis:** This report delivers a quantitative analysis of market segments, current trends, estimations, and dynamics from 2024 to 2030 for the Global GPU Market, highlighting significant opportunities.

**Driver and Restraint Insights:** Detailed insights into key factors driving the market growth, alongside major restraints, help stakeholders understand the impact of various market dynamics.

**Detailed Market Segmentation:** An in-depth analysis of market segmentation aids stakeholders in identifying the most lucrative niches.

**Geographic Revenue Mapping:** Major countries in each region are mapped according to their revenue contribution to the Global GPU Market.

**Market Player Positioning:** The report facilitates benchmarking and delivers a clear understanding of the current position of the market players involved.

**Comprehensive Market Outlook:** Includes an analysis of regional and Global GPU Market trends, key players, market segments, application areas, and strategic market growth approaches.

Reasons to Purchase:-

**Strategic Decision Support:** This report offers valuable data on market forecasts, sector trends, and micro and macro details to support strategic decisions.

**Competitive Strategy Development:** Insights into market share and positioning of key market players aid in developing competitive strategies and positioning one's own business effectively.

**Risk Evaluation:** Understanding market drivers, restraints, and dynamics helps in assessing potential risks and developing risk mitigation strategies.

**Market Entry and Expansion:** Detailed analysis of segmented market growth, geographic trends,

and regulatory frameworks assists businesses in planning market entry and expansion strategies.

**Optimal Investment Planning:** The report guides stakeholders in identifying regions and sectors ripe for investment, helping optimize investment strategies.

**Regulatory Impact Analysis:** Provides a detailed understanding of the regulatory landscape and upcoming changes, which are crucial for compliance and strategic planning.

The report provides insight into current and future potential applications, which help the stakeholder to collaborate with certain players across industries

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#### COMPANY PROFILES:-

NVIDIA Corporation

Advanced Micro Devices (AMD)

Intel Corporation

ASUSTeK Computer Inc. (ASUS)

MSI (Micro-Star International)

Gigabyte Technology Co., Ltd.

ZOTAC International

EVGA Corporation

Sapphire Technology

Palit Microsystems Ltd.

#### THIS REPORT WILL ANSWER FOLLOWING QUESTIONS:-

- Global GPU Market market size and forecast, By Geography, Type, Device and Industry.
- Competitive landscape and market share of Top Players
- Key drivers and restraints shaping the growth of the Global GPU Market
- Technology trends and related opportunities for Global GPU Market Manufacturers and suppliers
- Unmet Needs And Market Opportunity For Suppliers
- The potential entry barriers and risks for new players entering the Global GPU Market

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