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Global GPU Expansion Module Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global GPU Expansion Module market size is expected to reach $ 1655 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032).

A GPU expansion module is a computing expansion device that integrates additional graphics processing units (GPUs), video memory, cooling systems, power management components, and high-speed interconnect technologies into a standalone hardware unit via standardized interfaces. Designed to enhance the parallel computing capabilities of servers, workstations, edge computing devices, and high-performance computing systems, these modules typically connect to the host system using interfaces such as PCIe, NVLink, OAM (Open Accelerator Module), SXFT, or other high-speed interconnects. This enables computing platforms to flexibly scale the number of GPUs and boost processing performance for tasks including AI training, AI inference, scientific computing, graphics rendering, and data analysis.

Key Findings

In 2025, the average selling price of GPU expansion modules is approximately $800–$1,000 per unit, with an average gross margin of 35%–45%.

North America represented the largest regional market with around 40% demand share

AI training represented the largest application segment with approximately 45% demand share

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Market Trends

The GPU Expansion Module industry is transitioning from traditional graphics acceleration hardware toward AI infrastructure computing components driven by large-scale artificial intelligence deployment, high-performance computing expansion and cloud data center investment. Product development is moving toward higher computing density, larger memory capacity, faster interconnect technologies and improved energy efficiency. Advanced architectures such as high-bandwidth memory integration, multi-GPU interconnection and modular accelerator designs are becoming increasingly important as enterprises and data centers require scalable AI computing platforms.

Market Dynamics

Drivers

The rapid adoption of generative AI, large language models and enterprise AI applications is the primary driver for GPU Expansion Module demand. Increasing requirements for AI model training, inference services and accelerated data processing are encouraging data centers and cloud service providers to deploy higher-density GPU computing platforms. Expansion of high-performance computing infrastructure and digital transformation across industries further supports market development.

Restraints

The GPU Expansion Module market faces limitations from high hardware costs, supply constraints of advanced semiconductor components and complexity in system integration. High-end modules require advanced GPU processors, high-performance memory, sophisticated cooling solutions and high-speed interconnect technologies, resulting in significant manufacturing costs and technical barriers. Power consumption and data center infrastructure requirements also limit deployment in some application scenarios.

Opportunities

Growing demand for AI computing infrastructure, edge AI deployment and intelligent industrial applications creates new opportunities for GPU Expansion Module suppliers. The expansion of AI servers, autonomous driving simulation platforms, digital twins and

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scientific computing systems is expected to increase demand for modular GPU acceleration solutions. Future opportunities will also emerge from improved energy efficiency, liquid cooling technologies and next-generation GPU architectures.

Challenges

The industry faces challenges from rapid technology evolution, product compatibility requirements and increasing competition across GPU suppliers, server manufacturers and system integrators. Maintaining software ecosystem compatibility, improving computing efficiency and reducing total deployment costs remain important challenges for long-term market development.

Industry Chain Analysis

The GPU Expansion Module industry chain covers upstream semiconductor components, GPU processors, high-bandwidth memory, PCB materials, power components, cooling systems and electronic components; midstream module design, hardware integration, testing and system optimization; and downstream applications including AI computing, cloud data centers, HPC systems, industrial computing and professional workstations. The value creation process is mainly concentrated in GPU architecture integration, memory configuration, thermal management, high-speed interconnection and platform compatibility. Core GPU components and advanced memory represent major cost contributors, while module integration capability and system optimization determine product differentiation and profitability.

Segment Insights

GPU Expansion Module products are mainly categorized into PCIe GPU Expansion Module, SXM GPU Module, OAM GPU Module and other high-speed interconnect GPU modules. PCIe-based modules maintain broad adoption due to their flexibility and compatibility across servers and workstations. SXM and OAM-based modules are positioned toward high-performance AI training platforms requiring higher bandwidth, higher power capacity and multi-GPU scalability.

From an application perspective, AI training is currently the largest segment, supported by demand for large-scale model development and accelerated computing infrastructure. AI inference, cloud computing and HPC applications represent important

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expansion areas, while edge computing and professional workstation applications provide additional market opportunities through specialized computing requirements.

Downstream Market Opportunities

GPU Expansion Module is becoming a core computing component for AI infrastructure and high-performance computing systems. Data centers and cloud platforms require scalable GPU acceleration resources for AI model training, inference services and data-intensive workloads. Industrial automation, autonomous driving development, scientific research and digital simulation applications are increasing demand for specialized GPU computing capabilities. Future downstream opportunities will mainly come from AI-enabled industries, intelligent manufacturing and distributed computing environments.

Regional Insights

North America represents the largest GPU Expansion Module market, accounting for approximately 40% of global demand, supported by strong AI infrastructure investment, cloud computing development and high-performance computing deployment. The region has significant demand from enterprise AI platforms, cloud service providers and advanced computing applications.

Asia Pacific represents another major market with approximately 35% demand share and plays an important role in GPU module manufacturing, server assembly and electronics supply chain integration. China, Taiwan, South Korea and Japan contribute significantly to manufacturing capacity and component supply. Europe maintains demand in scientific computing, industrial simulation and enterprise digital transformation, while other regions are gradually expanding AI computing infrastructure investment.

Competitive Landscape Analysis

The GPU Expansion Module market features competition among GPU developers, module manufacturers, server suppliers and system integrators. Companies with advantages in GPU architecture, semiconductor technology, manufacturing scale, server integration capability and ecosystem compatibility hold stronger competitive positions. GPU technology providers focus on advanced accelerator architectures and

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computing ecosystems, while server and module manufacturers emphasize hardware integration, thermal solutions, deployment flexibility and customer-specific optimization. The competitive landscape is increasingly shaped by AI infrastructure requirements, multi-GPU scalability, energy efficiency and complete computing platform capabilities.

Report Scope

This report studies the global GPU Expansion Module production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for GPU Expansion Module and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of GPU Expansion Module that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global GPU Expansion Module total production and demand, 2021-2032, (K Units)

Global GPU Expansion Module total production value, 2021-2032, (USD Million)

Global GPU Expansion Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global GPU Expansion Module consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: GPU Expansion Module domestic production, consumption, key domestic manufacturers and share

Global GPU Expansion Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global GPU Expansion Module production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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Global GPU Expansion Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global GPU Expansion Module market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NVIDIA, AMD, Intel, Supermicro, Dell Technologies, Hewlett Packard Enterprise, Amfeltec, Advantech Technology, ADLINK, One Stop Systems, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World GPU Expansion Module market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global GPU Expansion Module Market, By Region:

United States

China

Europe

Japan

South Korea

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ASEAN

India

Rest of World

Market Segmentation

Global GPU Expansion Module Market, Segmentation by Type:

Vertical Scaling

Horizontal Scaling

Global GPU Expansion Module Market, Segmentation by Interface:

PCIe GPU Expansion Module

SXM GPU Expansion Module

OAM GPU Expansion Module

Global GPU Expansion Module Market, Segmentation by Power Consumption:

<100W

100–300W

300–700W

>700W

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Global GPU Expansion Module Market, Segmentation by Application:

Artificial Intelligence and Machine Learning

High-Performance Computing

Cloud Computing and Data Centers

Autonomous Driving

Industrial Automation

Others

Companies Profiled:

NVIDIA

AMD

Intel

Supermicro

Dell Technologies

Hewlett Packard Enterprise

Amfeltec

Advantech Technology

ADLINK

One Stop Systems

Axiomtek

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Key Questions Answered

1. How big is the global GPU Expansion Module market?
2. What is the demand of the global GPU Expansion Module market?
3. What is the year over year growth of the global GPU Expansion Module market?
4. What is the total value of the global GPU Expansion Module market?
5. Who are the Major Players in the global GPU Expansion Module market?
6. What are the growth factors driving the market demand?

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