

Global Generative AI Workstation GPU Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Generative AI Workstation GPU market size is expected to reach \$ 37675 million by 2032, rising at a market growth of 16.4% CAGR during the forecast period (2026-2032).

In 2025, global Generative AI Workstation GPU production reached approximately 5.25 million units, with an average global market price of around US\$2,400 per unit.

The gross profit margin of major companies in the industry is between 36% ? 58%.

In 2025, the global production capacity of Generative AI Workstation GPU was approximately 7.00 million units.

Generative AI Workstation GPU is a high-performance graphics processor optimized for local AI model development, fine-tuning, rendering, and content generation workloads. It supports parallel computing, large memory capacity, acceleration libraries, and high-throughput processing for designers, developers, researchers, and enterprise AI teams.

The industrial chain includes upstream wafers, GPU chips, HBM or GDDR memory, substrates, cooling modules, PCBs, and power components. Midstream covers chip packaging, board design, firmware integration, thermal testing, and final assembly. Downstream applications mainly include AI workstations, content creation, model training, inference development, visualization, and enterprise AI deployment.

This report studies the global Generative AI Workstation GPU production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Generative AI Workstation GPU 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 Generative AI Workstation GPU that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Generative AI Workstation GPU total production and demand, 2021-2032, (K Units)

Global Generative AI Workstation GPU total production value, 2021-2032, (USD Million)

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

Global Generative AI Workstation GPU consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Generative AI Workstation GPU domestic production, consumption, key domestic manufacturers and share

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

Global Generative AI Workstation GPU production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Generative AI Workstation GPU production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Generative AI Workstation GPU 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, PNY Technologies, ASUS, MSI, Gigabyte, ZOTAC, EVGA, Sapphire Technology, 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 Generative AI Workstation GPU 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 Generative AI Workstation GPU Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Generative AI Workstation GPU Market, Segmentation by Type:

Data Center Architecture GPU

Workstation Architecture GPU

Edge AI Architecture GPU

Global Generative AI Workstation GPU Market, Segmentation by Memory Type:

GDDR Memory GPU

HBM Memory GPU

Unified Memory GPU

Global Generative AI Workstation GPU Market, Segmentation by GPU Memory Capacity:

Entry Capacity GPU (?16GB)

Medium Capacity GPU (16?48GB)

High Capacity GPU (?48GB)

Global Generative AI Workstation GPU Market, Segmentation by Application:

Professional Workstation

AI Development Platform

Content Creation Studio

Other

Companies Profiled:

NVIDIA

AMD

Intel

PNY Technologies

ASUS

MSI

Gigabyte

ZOTAC

EVGA

Sapphire Technology

Leadtek

Inno3D

Colorful

Galaxy

Leadtek China

Moore Threads

Biren Technology

Enflame Technology

Metax

Innosilicon

Key Questions Answered:

1. How big is the global Generative AI Workstation GPU market?
2. What is the demand of the global Generative AI Workstation GPU market?
3. What is the year over year growth of the global Generative AI Workstation GPU market?
4. What is the production and production value of the global Generative AI Workstation GPU market?
5. Who are the key producers in the global Generative AI Workstation GPU market?
6. What are the growth factors driving the market demand?

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