

Global GPU Cold Plate Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global GPU Cold Plate market size is expected to reach \$ 6495 million by 2032, rising at a market growth of 20.0% CAGR during the forecast period (2026-2032).

A GPU Cold Plate is a liquid cooling component designed to dissipate heat generated by a graphics processing unit (GPU). It uses internal fluid channels to transfer heat from the GPU to a circulating coolant, enabling efficient thermal management in high-performance systems. In 2025, global embedded GPU cold plate production reached approximately 5.39 million units, with an average global market price of around US\$ 325 per unit. Annual production capacity is 6.0 million units. Gross Profit Margin: 28%. The GPU cold plate industry chain is relatively concentrated and technologically intensive. Upstream primarily involves high-purity copper, aluminum, and precision machining equipment suppliers. Midstream consists of specialized manufacturers who design and produce microchannel or fin-based cold plates, integrating fluid dynamics, thermal conductivity, and reliability requirements. Downstream covers AI and HPC server OEMs, workstation builders, and some high-performance consumer GPU products, which directly purchase or integrate cold plates into liquid cooling solutions. Close coordination across these layers ensures product performance, quality, and scalability. The GPU cold plate market is poised for strong growth due to surging AI workloads and denser GPU configurations. While the technology barrier is high, early investments in microchannel design and two-phase cooling can create long-term competitive advantages. Chinese manufacturers, though relatively new in the high-end segment, are rapidly catching up and may significantly reshape the global supply balance. For investors and system designers, understanding both upstream material constraints and downstream AI adoption trends is key to evaluating market potential.

This report studies the global GPU Cold Plate production, demand, key manufacturers,

and key regions.

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

Highlights and key features of the study

Global GPU Cold Plate total production and demand, 2021-2032, (Units)

Global GPU Cold Plate total production value, 2021-2032, (USD Million)

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

Global GPU Cold Plate consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: GPU Cold Plate domestic production, consumption, key domestic manufacturers and share

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

Global GPU Cold Plate production by Internal Structure Design, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global GPU Cold Plate production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global GPU Cold Plate 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 CoolIT?Systems, Asetek, Boyd Corporation, Motivair Corporation, Asia Vital Components, Mersen, Wieland Microcool, Advanced Cooling Technologies, Wakefield-Vette, Columbia-Staver, 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 Cold Plate market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Internal Structure Design, 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 Cold Plate Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global GPU Cold Plate Market, Segmentation by Internal Structure Design:

Microchannel

Tube-in

Fin / Pin-fin

Multi-channel

Global GPU Cold Plate Market, Segmentation by System Integration Level:

Single GPU

Multi-GPU

Hybrid

System-level

Global GPU Cold Plate Market, Segmentation by Cooling Technology Path:

Single-phase

Two-phase

Global GPU Cold Plate Market, Segmentation by Application:

Data Center

Consumer

Others

Companies Profiled:

CoolIT?Systems

Asetek

Boyd Corporation

Motivair Corporation

Asia Vital Components

Mersen

Wieland Microcool

Advanced Cooling Technologies

Wakefield-Vette

Columbia-Staver

Envicool Technology

Yinlun Machinery

Sanhe Tongfei Refrigeration

Feirongda Technology

Sinomatech

Gaolan Holdings

Shenling Environmental Systems

Auras Technology

Mikros Technologies

Parker Hannifin

Key Questions Answered:

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

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