

Global 3D Manifold Microchannel Cold Plate Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 3D Manifold Microchannel Cold Plate market size is expected to reach \$ 46.10 million by 2032, rising at a market growth of 24.4% CAGR during the forecast period (2026-2032).

In 2025, global sales volume of 3D manifold microchannel cold plate was approximately 12,800 units, with the mainstream ex-factory average price at around USD 755 per unit and gross margin of major manufacturers at approximately 35%-55%.

3D manifold microchannel cold plate is an advanced liquid-cooling heat exchange component designed for high-heat-flux chip and power device cooling. It is neither a conventional water-cooling plate nor a simple parallel microchannel cold plate. Its core feature is the integration of microchannel array and three-dimensional manifold distribution structure inside the cold plate, allowing coolant to enter hotspot area through a shorter and more uniform flow path and to be rapidly collected and discharged. The key technical focus is to reduce pressure drop, improve local heat transfer capability and enhance temperature uniformity through tree-branch distribution, array distribution, zone supply, short-loop jet flow and other structures, making it suitable for high-power-density cooling scenarios that are difficult for traditional cold plate to address.

Its upstream mainly includes high-thermal-conductivity metal material, precision-machined substrate, sealing material, microfabrication equipment, 3D printing equipment, diffusion bonding and brazing process equipment, as well as simulation design, fluid-structure optimization and reliability testing service. Copper, aluminum, stainless steel and other materials determine the basic thermal conductivity and pressure resistance, while microchannel machining, metal additive manufacturing, diffusion bonding and laminated brazing determine whether complex internal flow

channel can be formed stably. Downstream, it is mainly used in local cooling of high-heat-flux equipment such as AI server, data center and new energy power electronics, and usually works as a core heat exchange component in liquid cooling system together with pump, CDU, pipeline, quick connector, coolant and control unit.

Report Scope

This report studies the global 3D Manifold Microchannel Cold Plate production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 3D Manifold Microchannel 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 3D Manifold Microchannel Cold Plate that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 3D Manifold Microchannel Cold Plate total production and demand, 2021-2032, (K Pcs)

Global 3D Manifold Microchannel Cold Plate total production value, 2021-2032, (USD Million)

Global 3D Manifold Microchannel Cold Plate production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global 3D Manifold Microchannel Cold Plate consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: 3D Manifold Microchannel Cold Plate domestic production, consumption, key domestic manufacturers and share

Global 3D Manifold Microchannel Cold Plate production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global 3D Manifold Microchannel Cold Plate production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global 3D Manifold Microchannel Cold Plate production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global 3D Manifold Microchannel 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 Mikros Technologies, KoolMicro,

Frore Systems, Far East Electric, 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 3D Manifold Microchannel Cold Plate market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pcs) 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 3D Manifold Microchannel Cold Plate Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 3D Manifold Microchannel Cold Plate Market, Segmentation by Type:

Tree-Branch Type

Array Distribution Type

Zone-Supplied Type

Global 3D Manifold Microchannel Cold Plate Market, Segmentation by Forming Process:

3D-Printed Monolithic Type

Diffusion-Bonded Assembly Type

Laminated Brazed Type

Global 3D Manifold Microchannel Cold Plate Market, Segmentation by Application:

AI Server

Data Center

New Energy Power Electronics

Other

Companies Profiled:

Mikros Technologies

KoolMicro

Frore Systems

Far East Electric

Key Questions Answered:

1. How big is the global 3D Manifold Microchannel Cold Plate market?

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

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