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Global 3D Manifold Microchannel Cold Plate Market Growth 2026-2032

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Abstracts

The global 3D Manifold Microchannel Cold Plate market size is predicted to grow from US$ 9.45 million in 2025 to US$ 47.14 million in 2032; it is expected to grow at a CAGR of 25.9% from 2026 to 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

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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.

United States market for 3D Manifold Microchannel Cold Plate is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for 3D Manifold Microchannel Cold Plate is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for 3D Manifold Microchannel Cold Plate is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key 3D Manifold Microchannel Cold Plate players cover Mikros Technologies, KoolMicro, Frore Systems, Far East Electric, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “3D Manifold Microchannel Cold Plate Industry Forecast” looks at past sales and reviews total world 3D Manifold Microchannel Cold Plate sales in 2025, providing a comprehensive analysis by region and market sector of projected 3D Manifold Microchannel Cold Plate sales for 2026 through 2032. With 3D Manifold Microchannel Cold Plate sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world 3D Manifold Microchannel Cold Plate industry.

This Insight Report provides a comprehensive analysis of the global 3D Manifold Microchannel Cold Plate landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on 3D Manifold Microchannel Cold Plate portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global 3D Manifold Microchannel Cold Plate market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

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shaping the global outlook for 3D Manifold Microchannel Cold Plate and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global 3D Manifold Microchannel Cold Plate.

This report presents a comprehensive overview, market shares, and growth opportunities of 3D Manifold Microchannel Cold Plate market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Tree-Branch Type

Array Distribution Type

Zone-Supplied Type

Segmentation by Forming Process:

3D-Printed Monolithic Type

Diffusion-Bonded Assembly Type

Laminated Brazed Type

Segmentation by Application:

AI Server

Data Center

New Energy Power Electronics

Other

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This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia
- Europe
  - Germany
  - France
  - UK
  - Italy

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Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Mikros Technologies

KoolMicro

Frore Systems

Far East Electric

Key Questions Addressed in this Report

What is the 10-year outlook for the global 3D Manifold Microchannel Cold Plate market?

What factors are driving 3D Manifold Microchannel Cold Plate market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

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How do 3D Manifold Microchannel Cold Plate market opportunities vary by end market size?

How does 3D Manifold Microchannel Cold Plate break out by Type, by Application?

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