

Global 3D Manifold Microchannel Cold Plate Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global 3D Manifold Microchannel Cold Plate market size was valued at US\$ 9.94 million in 2025 and is forecast to a readjusted size of US\$ 46.10 million by 2032 with a CAGR of 24.4% during review period.

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 is a detailed and comprehensive analysis for global 3D Manifold Microchannel Cold Plate market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global 3D Manifold Microchannel Cold Plate market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global 3D Manifold Microchannel Cold Plate market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global 3D Manifold Microchannel Cold Plate market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global 3D Manifold Microchannel Cold Plate market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pcs), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for 3D Manifold Microchannel Cold Plate

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global 3D Manifold Microchannel Cold Plate market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

3D Manifold Microchannel Cold Plate market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Tree-Branch Type

Array Distribution Type

Zone-Supplied Type

Market segment by Forming Process

3D-Printed Monolithic Type

Diffusion-Bonded Assembly Type

Laminated Brazed Type

Market segment by Application

AI Server

Data Center

New Energy Power Electronics

Other

Major players covered

Mikros Technologies

KoolMicro

Frore Systems

Far East Electric

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe 3D Manifold Microchannel Cold Plate product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 3D Manifold Microchannel Cold Plate, with price, sales quantity, revenue, and global market share of 3D Manifold Microchannel Cold Plate from 2021 to 2026.

Chapter 3, the 3D Manifold Microchannel Cold Plate competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 3D Manifold Microchannel Cold Plate breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and 3D Manifold Microchannel Cold Plate market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of 3D Manifold Microchannel Cold Plate.

Chapter 14 and 15, to describe 3D Manifold Microchannel Cold Plate sales channel, distributors, customers, research findings and conclusion.

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