

Global Microfluidic Cooling Technology Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Microfluidic Cooling Technology market size is expected to reach \$ 180 million by 2032, rising at a market growth of 10.4% CAGR during the forecast period (2026-2032).

Microfluidic cooling technology refers to an advanced thermal management approach that uses microscale channels, microchannels, microjets, or microstructured cold plates to precisely deliver coolant close to chips, packages, power devices, or other high-heat-flux components. Compared with conventional cold plates or air-cooling solutions, microfluidic cooling can operate closer to the heat source, offering larger heat transfer area, lower thermal resistance, more precise temperature control, and a compact structure. It is particularly suitable for AI chips, 3D packaging, power electronics, optoelectronic devices, and high-performance computing systems.

The microfluidic cooling technology market is still in an early stage, moving from laboratory validation and customized applications toward initial industrial adoption. Market growth is mainly driven by increasing thermal management requirements in AI servers, advanced packaging, chiplets, HBM, SiC/GaN power devices, and high-power optical modules. As chip power consumption and heat flux continue to rise, conventional air cooling and standard liquid cooling are becoming less effective in managing localized hotspots, creating opportunities for microfluidic cooling as a next-generation solution for high-performance electronics. However, the market still faces challenges such as high manufacturing costs, long reliability validation cycles, complex system integration, and limited standardization, so near-term adoption is expected to concentrate in high-value applications such as advanced semiconductors, data centers, aerospace, and power electronics.

This report studies the global Microfluidic Cooling Technology demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Microfluidic Cooling Technology, 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 Microfluidic Cooling Technology that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Microfluidic Cooling Technology total market, 2021-2032, (USD Million)

Global Microfluidic Cooling Technology total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Microfluidic Cooling Technology total market, key domestic companies, and share, (USD Million)

Global Microfluidic Cooling Technology revenue by player, revenue and market share 2021-2026, (USD Million)

Global Microfluidic Cooling Technology total market by Type, CAGR, 2021-2032, (USD Million)

Global Microfluidic Cooling Technology total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Microfluidic Cooling Technology market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Jabil, Corintis, JetCool, CoolIT Systems, Advanced Thermal Solutions (ATS), Boyd Corporation, Asetek, Auras Technology, Delta Electronics, 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 Microfluidic Cooling Technology market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 Microfluidic Cooling Technology Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Microfluidic Cooling Technology Market, Segmentation by Type:

Chip-level Microchannel Cooling

Microchannel Cold Plate

Microconvective / Jet Impingement Cooling

Global Microfluidic Cooling Technology Market, Segmentation by Manufacturing Process:

Silicon-based Microfluidic Cooling

Glass-based Microfluidic Cooling

Metal-based Microfluidic Cooling

Others

Global Microfluidic Cooling Technology Market, Segmentation by Application:

Semiconductor & Advanced Packaging

Data Centers & AI Servers

Power Electronics

New Energy Vehicles

Optical Communication & Lasers

Others

Companies Profiled:

Jabil

Corintis

JetCool

CoolIT Systems

Advanced Thermal Solutions (ATS)

Boyd Corporation

Asetek

Auras Technology

Delta Electronics

Key Questions Answered

1. How big is the global Microfluidic Cooling Technology market?
2. What is the demand of the global Microfluidic Cooling Technology market?
3. What is the year over year growth of the global Microfluidic Cooling Technology market?
4. What is the total value of the global Microfluidic Cooling Technology market?
5. Who are the Major Players in the global Microfluidic Cooling Technology market?
6. What are the growth factors driving the market demand?

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