

Global Microchannel Cooling System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Microchannel Cooling System market size is expected to reach \$ 164 million by 2032, rising at a market growth of 14.8% CAGR during the forecast period (2026-2032).

Microchannel Cooling System is a high-efficiency thermal management solution that uses very small channels, usually at the millimeter or micrometer scale, to guide liquid coolant or refrigerant through a heat exchanger, cold plate, or cooling module. Because the channel size is extremely small, the system provides a large heat transfer surface area, short heat conduction path, and fast fluid heat exchange, enabling compact size and high cooling performance. Microchannel cooling systems are widely used in electronics cooling, data centers, power electronics, EV batteries, laser systems, medical devices, aerospace, and industrial equipment where high heat flux and space limitations require more efficient cooling technologies.

Microchannel Cooling System market is growing steadily as advanced electronics, AI servers, electric vehicles, power semiconductor modules, and high-performance industrial equipment generate higher heat loads and require more compact and efficient cooling solutions. Compared with traditional cooling structures, microchannel cooling can provide higher heat transfer efficiency, lower coolant volume, and better temperature uniformity, making it attractive for high-density computing, EV thermal management, 5G equipment, laser systems, and precision manufacturing. Market growth is mainly driven by the expansion of data centers, electrification of vehicles, miniaturization of electronic devices, and increasing demand for liquid cooling technologies, while challenges include higher manufacturing precision requirements, pressure drop control, clogging risk, and material compatibility.

This report studies the global Microchannel Cooling System demand, key companies, and key regions.

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

Highlights and key features of the study

Global Microchannel Cooling System total market, 2021-2032, (USD Million)

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

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

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

Global Microchannel Cooling System total market by Type, CAGR, 2021-2032, (USD Million)

Global Microchannel Cooling System total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Microchannel Cooling System 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 Microchannel Cooling System 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 Microchannel Cooling System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Microchannel Cooling System Market, Segmentation by Type:

Chip-level Microchannel Cooling

Microchannel Cold Plate

Microconvective / Jet Impingement Cooling

Global Microchannel Cooling System Market, Segmentation by Cooling Medium:

Single-phase Liquid

Two-phase Liquid

Global Microchannel Cooling System Market, Segmentation by Material:

Copper Microchannel Cold Plate

Aluminum Microchannel Cold Plate

Others

Global Microchannel Cooling System Market, Segmentation by Application:

AI Data Center

High-Performance Computing (HPC)

Cloud Computing and Enterprise Data Center

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 Microchannel Cooling System market?
2. What is the demand of the global Microchannel Cooling System market?
3. What is the year over year growth of the global Microchannel Cooling System market?
4. What is the total value of the global Microchannel Cooling System market?
5. Who are the Major Players in the global Microchannel Cooling System market?
6. What are the growth factors driving the market demand?

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