

Liquid-cooled micro-module



Overview

This turnkey, liquid cooled solution is the fastest and most reliable way to adopt liquid cooling and capture its benefits – without disrupting existing IT operations. Use cases such as AI, OTT, advanced cloud computing and low latency workloads are just some of what MicroModular . Supermicro liquid cooling solutions reduce power costs by up to 40%, accelerate time-to-deployment and time-to-online, and allow data centers to run more efficiently with lower PUE. At its Foundry Direct Connect showcase, via HardwareLuxx coverage, the company revealed working prototypes for LGA desktop CPUs, BGA servers, and AI modules. Rather than flood. ging technology for microwave and millimetre-wave applications. The fact that the substrate is hermetic. The Supermicro CDU integrates 2 hot-swappable and redundant pumping modules and power supply modules, guaranteeing nearly a 100% uptime to the operator. The CDU has cooling capacity of up to 100kW or 250kW (depending on CDU configuration) enabling extremely high rack densities. The CDU access and. This invention introduces advanced liquid-cooled cold plates with localized micro-channel, pin fin, and lattice structures that deliver targeted hotspot cooling, quasi-uniform temperatures, and reduced pumping power for multi-chip modules and 3D-ICs. High-performance computing systems, AI.

Article Content

Watercooling UK

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Direct Die Cooling For Semiconductors | JetCool

Manufacture high-performance devices with enhanced power density and improved device efficiency ahead of your competition with JetCool's liquid-to-chip (or direct-water) cooling.

Integrated Microchannel Cooling for Power Electronic

The direct-bonded-copper (DBC) substrate with integrated microchannel cooling designed for a new packaging structure is proposed for

Design, integration and performance analysis of a lid-integral ...

In this paper, a lid-integral silicon-based microchannel cooling module (LSMCM) for a large-sized and high-power chip was designed, fabricated, and ex

A Novel Substrate-Embedded SiC Power Module With Integrated

To fully leverage the advantages of silicon carbide (SiC) power devices, this study presents a substrate-embedded SiC power module with integrated liquid cooling.

China GPU Liquid Cooling Market Size, Share & 2031 Growth Trends

China GPU Liquid Cooling Market Analysis by Mordor Intelligence The China GPU liquid cooling market size was valued at USD 2.28 billion in 2025 and estimated to grow from USD 2.87

Intel Prepares 1,000 W Package-Attached Liquid Cooling Modules

Intel is exploring a new way to cool its hottest chips by weaving tiny water channels into the processor package itself. At its Foundry Direct Connect showcase, via HardwareLuxx coverage,

Rack-Scale Liquid Cooling Solutions | Supermicro

Dive into Liquid Cooling Server solutions, providing efficient thermal management. Ideal for high-performance computing, ensuring optimal operation.

LiquidStack Releases New Modular Solutions | LiquidStack

LiquidStack introduces MicroModular™ and MegaModular™ solutions for efficient liquid immersion cooling. Read now to learn how they revolutionise edge computing!

Thermal management of a power electronic module employing a

Abstract In this study, the cooling capability of a novel design liquid jet impingement multi-micro nozzle cooling system for a high heat flux commercial Si-IGBT power modules has been

SUPERMICRO RACK SCALE LIQUID COOLING SOLUTIONS

For maximum GPU density, a liquid-cooled 4U architecture can be integrated using Supermicro's complete direct-to-chip liquid cooling solution, allowing up to 8 systems in a standard 48U rack for a

Embedded liquid cooling module for high-power semiconductor devices

The findings demonstrated the improvement in thermal performance of the embedded liquid cooling module with Si₃N₄-based active metal brazing substrates for high-power

Embedded liquid cooling module for high-power semiconductor devices

We designed a novel embedded liquid cooling module using Si₃N₄-based active metal brazing substrates, where microchannels were etched in the bottom copper layer to enhance thermal

High-Performance Liquid-Cooled Cold Plates for Targeted Hotspot ...

This invention introduces advanced liquid-cooled cold plates with localized micro-channel, pin fin, and lattice structures that deliver targeted hotspot cooling, quasi-uniform temperatures, and reduced

Microconvective Liquid Cooling Technology | JetCool

Our collection of liquid-cooled products covers a wide range of applications JetCool's innovative product suite uses its patented microconvective cooling®

IT cooling

Show products IT cooling Liquid Cooling Units Efficient cooling of VX IT racks and Micro Data Centers with no loss of space. Optimum support of IT-compatible, "front-to-back" air routing. High level of fail

Liquid Cooling in an LTCC-Module for a Switched Mode Amplifi

examine substrate integrated liquid cooling in an LTCC module. The approach with a thermal test die allows easy control of the dissipated power and measurement of temperature. However

Accelerate Time-to-Deployment with Plug-and-Play Liquid-Cooled

Full Portfolio of Liquid-Cooling Components The complete rack-scale solution is available directly from Supermicro, reducing lead times and eliminating multiple vendor contact points.

MicroModular™ Liquid Cooling Solution | LiquidStack

MicroModular™ by LiquidStack offers efficient liquid cooling in a compact modular container, ideal for scalable infrastructure and flexible data center needs.

Rack-Scale Liquid Cooling Solutions | Supermicro

Supermicro liquid cooling solutions reduce power costs by up to 40%, accelerate time-to-deployment and time-to-online, and allow data centers to run more efficiently with lower PUE.

Liquid Chiller Module

Through our group of savvy technicians with abundant know-how, MOIR can work with our customers on the micro cooling system with uncompromising standards,

DC Liquid Chiller Liquid Cooling – Air Cooled & Water

As a pioneer in micro refrigeration, RIGID has also developed a range of liquid cooling chillers/modules based on its own mini compressors, to cater to

Contact Us

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