

Preview

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 can handle. 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 flooding technology for microwave and millimetre-wave applications. The fact that the substrate is hermetic. 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.

Convection-based embedded cooling technologies typically employ fluid-directing structures on top of or inside the active electronic device (i.e., inter-chip or intra-chip cooling) and

To address this, an embedded microfluidic-cooled SiC power module is developed, combining embedded microchannels and nano-silver sintering to enable efficient and uniform cooling.

With the integration of micro-channels into the LTCC-multilayer-stack the microwave-substrate becomes part of the piping for liquid cooling and brings the coolant in close contact to the heat source. As an

High-Performance Liquid-Cooled Cold Plates for Targeted Hotspot Management in Multi-Chip Systems This invention introduces advanced liquid-cooled cold plates with localized micro-channel, pin fin,

For future power system, a micro power grid system, which is mainly composed of several power modules, such as superconducting (SC) cable, superconducting magnetic energy storage

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

PRISM is a small, modular, pool-type, liquid-metal (sodium)-cooled reactor producing 471 MWt power. Three reactor modules constitute a power block, and

Microchannel heat dissipation is an advanced liquid-cooled heat dissipation technology, which takes away heat by heat transfer when the cooling working fluid flows through the micro-channel on the

Liquid-cooled micro-module technology

Recognized for its superior heat transfer properties, liquid metal shows significant potential to replace traditional heat transfer fluids. Compared to conventional chip cooling methods, liquid metal-based

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

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Enhanced insulation and superior thermal characteristics are crucial in advanced packaging for medium voltage (MV) silicon carbide (SiC) power modules. Nonetheless, the reduction in thermal resistance

Air cooling can provide a simple, low cost, effective, and reliable cooling solution for microelectronic devices. However, with the increase in heat flux dissipation, current air cooling technology is not

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

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

JetCool's innovative product suite uses its patented microconvective cooling technology, offering solutions from fully sealed cold plates and liquid-to-die

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