

AI computing power and liquid-cooled servers





Overview

The only way to solve the massive heat problems of next gen AI chips is with liquid cooling. AI factories are pushing data center power and cooling requirements beyond traditional limits, making integrated AI data center infrastructure essential. This goes beyond simply raising silicon's temperature tolerance and could change how data centre cooling is. Older "brownfield" data centers were designed for server racks consuming between 5 and 15 kilowatts (kW) of power.



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Why Liquid Cooling Is the New Standard for Data

Discover why liquid cooling is replacing air systems in modern data centers. Explore its role in AI workloads, energy savings, and sustainability in

AI-driven cooling technologies for high-performance data centres:

This study presents a comprehensive, system-wide review of next-generation cooling technologies, including direct liquid cooling, immersion cooling, two-phase systems, spray and jet



AI factory liquid cooling & power infrastructure

End-to-end solutions for integrated direct-to-chip liquid cooling, CDUs, and power infrastructure for AI factories--optimized for GPU densities above 100 kW per rack.

Supermicro's Liquid-Cooled SuperClusters for AI Data

San Jose, Calif., - October 15, 2024 - Supermicro, Inc. (NASDAQ: SMCI), a Total IT Solution Provider for AI, Cloud, Storage, and 5G/Edge, is accelerating the

Top 10: Liquid Cooling Companies , Data Centre Magazine

In association with Mitsubishi Electric, Data Centre Magazine spotlights top liquid cooling companies developing sustainability-led solutions



Vertiv Deepens AI Data Center Role With Liquid Cooling And Hut 8 Deal

The deal adds server-side liquid-cooling design and high-density thermal validation, which can help Vertiv model how its cooling and power products behave together in real AI

Cooling Solutions for HPC, AI & Data Centers , CoolIT

Engineered for tomorrow's workloads, CoolIT liquid cooling powers HPC, AI, and enterprise systems with efficient CDUs, cold plates and heat exchangers.

MiTAC Computing Showcased New OCP Liquid



Cooled Servers and

The MiTAC C2811Z5 is a liquid-cooled high-density multi-node server, with each node powered by AMD EPYC 9005 series processors and expandable DDR5 memory. Its liquid cooling

The Future of AI Depends on Solving This Problem

Liquid cooling technology will continue to evolve, resulting in improvements in efficiency, reliability and ease of deployment. But the

'Roadmap' shows the environmental impact of AI data center boom

Researchers used advanced data analytics to create a state-by-state look at that environmental impact of the AI boom and how to make the computing infrastructure that supports it



Liquid cooling: a cool approach for AI , HPE

At HPE, we have decades of experience innovating and delivering liquid-cooled systems worldwide to efficiently cool large-scale systems running

Iceotope Secures \$26M Series B as AI Infrastructure Pushes Cooling

UK-based liquid cooling specialist Iceotope has raised \$26 million in a Series B funding round as demand for AI infrastructure continues to strain traditional data center cooling methods. The

AI data center growth: Meeting the demand ,

Soaring demand for AI data centers has ushered in a new area of growth. We explore these new opportunities for companies and investors across

ASUS introduces liquid-cooled AI infrastructure at GTC

Rack-scale systems support up to 227 kW TDP and NVLink-connected GPUs with hybrid and liquid cooling options for large AI clusters.

AWS bets on liquid cooling for its AI servers , TechCrunch

The most important of these is that AWS will soon start using liquid cooling for its AI servers and other machines, regardless of whether those are



Liquid Cooling Data Center Solution: How It Works and Why It Matters

As AI and high-density computing continue to drive higher thermal demands, gottogpower liquid cooling data center solutions and liquid cold plate technologies are becoming essential for

Flex Announces Liquid-Cooled Rack and Power

Flex today announced new reference platforms for liquid-cooled servers, rack, and power products that will enable customers to sustainably

The Innovations Powering AI Chip Cooling in the Data Age



Discover how liquid cooling and AI-driven systems are transforming chip performance and data center efficiency.

PowerEdge AI Servers with GPU Acceleration , Dell USA

Boost AI, generative AI, and compute-intensive workloads with servers that offer a variety of powerful GPU accelerators.

Building Sustainable Liquid-Cooled AI Data Centres

Traditional air cooling is being pushed to its limits by high-performance, high-density racks, and to unlock AI's full potential, data centres



Liquid cooling becoming essential as AI servers proliferate

In data centers with liquid cooling, typically only 10% of racks or fewer are using it. But as AI workloads are deployed at a runaway pace, liquid cooling is becoming

Computer Industry Joins NVIDIA to Build AI Factories

NVIDIA and the world's top computer manufacturers today unveiled an array of NVIDIA Blackwell architecture-powered systems featuring Grace CPUs,

AI Server Market Size And Share , Industry Report, 2033



The global AI server market size was estimated at USD 131.65 billion in 2025 and is projected to reach USD 598.12 billion by 2033, growing at a CAGR of 21.2% from

Liquid Cooling: The 2026 Mandate for 100kW AI Racks

In 2026, liquid cooling is mandatory for 100kW AI data centers. Learn how key partnerships are solving the power crisis and shaping the future of cooling. Discover more.

Navigating Liquid Cooling Architectures for Data Centers with AI

There are six common heat rejection architectures for liquid cooling where we provide guidance on selecting the best one for your AI servers or cluster. AI training and inference servers use



Top 10: Liquid Cooling Companies , Data Centre Magazine

Discover the leading liquid cooling companies transforming data centre infrastructure with sustainable, high-performance thermal management solutions As rack densities soar and AI

Delta targets next-gen AI data centers with 800V DC

At the Nvidia GTC 2026 conference, CEO Jensen Huang emphasized that power delivery and liquid cooling will become core elements requiring co

Re-Architecting the AI Server: The Hidden Water Cost of



As AI data centers adopt liquid cooling, freshwater use is surging--raising environmental justice concerns and straining communities.

MiTAC Computing Showcased New OCP Liquid Cooled Servers and

Advancing Open and Efficient Thermal Design MiTAC Computing has expanded its capabilities to deliver both air-cooled (C2810Z5) and liquid-cooled (C2811Z5) rack solutions through

The future of AI infrastructure may depend on warmer water

As AI rack densities rise, warmer-water cooling is emerging as a way to cut energy use, simplify infrastructure, and support scalable growth.



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