

Upgraded version of liquid-cooled switch for data centers



Overview

In 2024, NVIDIA released the NVL72/NVL36 solution, which increased the demand for the construction of fully liquid-cooled data centers. The two types of liquid cooling used on a large scale in the data center field are cold-plate and submerged liquid cooling. Cisco is actively innovating in direct-to-chip liquid cooling for high-performance switches, laying the groundwork for solutions that will enable seamless and. This advancement is designed to significantly reduce energy consumption within data centers by tackling the heat generated by high-performance networking equipment. The company is reportedly developing an ORv3W-based data center server rack. Most data centers running today were not designed for liquid cooling. They were built for 5 to 15 kW per rack, standard CRAC units, and air-cooled servers. AI infrastructure changed the load profile quickly. Other types such as spray cooling have.



Article Content

Data Center Liquid Cooling: Deep Dive | Flexential

The importance of cooling in data centers The heart of a data center's efficiency is its ability to manage heat. Considered a critical factor in data center tier

Cisco Liquid Cooling: AI Forces a Major Pivot in 2025

Discover how AI forces Cisco's liquid cooling pivot in 2025. Explore the strategy for next-gen AI data centers and the partnerships driving this massive shift now.

Upgrade legacy data centers for AI workloads with

Retrofitting existing racks of air-cooled servers with RDHxs is less costly and less disruptive than moving to liquid-cooled servers and adding

Liquid cooling solutions for AI and high-density data

Next-gen cooling for high-density workloads Schneider Electric's data center liquid cooling solutions are purpose-built for AI workloads, GPU servers, and

What Does it Take to Make the Switch to Liquid

Hybrid direct and indirect water-cooled - selective cooling of the highest energy-consuming components with direct contact liquid cooling with the balance of the

JetCool Launches Turnkey Liquid-Cooled Server Solution to

Trusted by top chipmakers, OEMs, and data centers, JetCool delivers a portfolio of liquid cooling solutions that enhance performance, increase energy efficiency, and support sustainability

Arista touts liquid cooling, optical tech to reduce power consumption ...

At Arista's recent Analyst Day event, co-founder Andreas Bechtolsheim said the company is developing 100% liquid-cooled switches and racks for enterprise data center customers.

Top Strategies for Data Center Liquid Cooling in 2025

Discover cutting-edge data center liquid cooling strategies for 2024. Boost efficiency, reduce costs, and future-proof your

Monitoring Coolant Flow in High-Density Liquid-Cooled

Measuring flow in liquid-cooled data center racks is critical as power densities increase and traditional air cooling falls short. This comprehensive

Liquid Cooling in Data Centers: Types, Benefits, and

Explore liquid cooling types for data centers—immersion, direct-to-chip, and rear-door heat exchangers—with key benefits and how to support

Liquid Cooling Comes to a Boil: Tracking Data Center

The rise of AI workloads is accelerating a major transition in data center design: the move from air to liquid cooling. At the halfway mark of 2025,

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Arista developing liquid-cooled network switches

Networking firm Arista is developing liquid-cooled switches and racks. As reported by NetworkWorld and Converge Digest, the company outlined its plans at the recent Hot Interconnects

Rack-Scale Liquid Cooling Solutions | Supermicro

Supermicro's proven liquid cooling solutions at scale enable data center operators to rapidly deploy the latest and most performant AI infrastructure while lowering

Exploring the Future of AI Networking: Liquid-Cooled Switches ...

By the time liquid-cooled switches reach commercial availability, facilities that have anticipated the shift will be ready to realize benefits immediately—energy savings, higher port densities, and increased

What Are Next-Generation Liquid-cooled Switches Like?

In 2024, NVIDIA released the NVL72/NVL36 solution, which increased the demand for the construction of fully liquid-cooled data centers. The

Retrofit vs New Build: Liquid Cooling in Data Centers

Most data centers running today were not designed for liquid cooling. They were built for 5 to 15 kW per rack, standard CRAC units, and air-cooled servers. AI infrastructure changed the load

Built like a startup, scaled like Cisco: Transforming data

Explore how Cisco built a direct-liquid-cooled switch using a startup mentality to solve AI data center energy and cooling challenges.

Liquid cooling: the future of data center architecture and

Cooling the future: How AI is reshaping data center strategy The adoption of liquid cooling marks a decisive shift in how data centers are built and

AWS rolls out liquid cooling in data centers

Last year AWS announced it would be rolling out new data center components designed to support the next generation of

What is Global Switch's Liquid Cooling for Data Centres?

This gives Global Switch flexibility to serve the full range of market requirements. "Across all our data centres worldwide, we are offering customers

Cisco's Liquid-Cooled 51.2T Switch: Next-Generation

Cisco's 51.2T liquid-cooled switch represents a significant leap forward in data center technology. By integrating direct-to-chip liquid cooling, the

Exploring the Future of AI Networking: Liquid-Cooled Switches on the ...

Imagine a data center where even the most powerful switches run cool and stable—without noise, thermal throttling, or energy waste. Cisco is actively innovating in directto-chip

Microsoft Liquid Cooling: A \$100B AI Bet in 2025

Discover Microsoft's 2025 pivot to liquid cooling for AI data centers. See how its \$100B bet on zero-water infrastructure reshapes the industry. Read the analysis.

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

GB200 NVL72 Deployment | Introl Blog

Traditional data center teams lack experience with 120kW liquid-cooled systems. Engineers familiar with distributed computing must learn unified

4 Types of Liquid Cooling Solutions: Which One is Right

This innovative approach is essential for creating eco-friendly, cost-efficient data centers that are equipped to meet the demands of the future.

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.tomor.eu>

Email: info@tomor.eu

Phone: +49 69 2381 5497

Address: Am Hauptbahnhof 10, 60329 Frankfurt am Main, Germany

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