Liquid-cooled switch trends



Overview

In 2025, liquid cooling has progressed from experimental to strategic; it is being chosen to improve performance, reduce energy use, and satisfy sustainability goals. Cisco is actively innovating in direct-to-chip liquid cooling for high-performance switches, laying the groundwork for solutions that will enable seamless and scalable AI at unprecedented densities. Today's rack switches are rapidly approaching their thermal limits with the jump to 400G, 800G, and. The growth of AI & HPC workloads is changing how data centers handle heat. As computers get more powerful, old air-based cooling methods can't keep up. Now, leaders see thermal control as the main hurdle for better performance. Using advanced. Power Usage Effectiveness (PUE) and Energy Efficiency Bottlenecks: Data from the Uptime Institute shows that the average Power Use Effectiveness (PUE) of large data centers worldwide has hovered between 1. 59 for many years, with little prospect of further reduction. Liquid cooling. Liquid Cooling Switches by Application (Enterprises, Data Centers, Others), by Types (32-Port 100G Data Center Switches, 48-Port 1G Management Network Switches, Others), by North America (United States, Canada, Mexico), by South America (Brazil, Argentina, Rest of South America), by Europe (United. These data centers are increasingly adopting direct liquid-cooling solutions to meet the high cooling requirements of high-density server racks.

© 2026 KENHARDT OPTICAL NETWORKS - All rights reserved

Article Content

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

Cisco is leading this innovation with ongoing R&D into direct-to-chip liquid-cooled switching platforms. By connecting you to this technology path before launch, we invite you to assess, plan, and pave the

Liquid Cooling Adoption Report: Market Trends and Technology

Liquid cooling technology is a big change in keeping high-performance hardware cool. Modern data centers need more power, but old cooling methods can''t handle the heat from dense

Data Center Liquid Cooling Technology and Trends

Liquid cooling technology is no longer simply an upgrade for data center cooling solutions; it is also a key path to addressing the explosion of

Liquid Cooling Switches Strategic Dynamics: Competitor Analysis

Explore the dynamic liquid cooling switches market, driven by AI, data centers, and high-performance computing. Discover growth drivers, emerging trends, key players, and regional insights shaping this

Liquid Cooling to Scale in AI Data Centers, Penetration to Surpass

However, as next-generation data centers come online starting in 2025—and as AI chip power consumption and system density continue to rise—liquid-to-liquid (L2L) cooling is expected to

Top 10 Data Center Liquid Cooling Trends Shaping 2025 -

As compute power increases due to AI, high-performance computing and hyperscale cloud data centers are dealing with far larger heat densities than before. In 2025, liquid cooling has

Thermal Management For Data Centers 2026-2036: Technologies,

The report covers historic data from 2022 to 2024 and forecasts the market size (US$) and volume demand (units) for liquid cooling components for the next 10 years (2026-2036).

What Are Next-Generation Liquid-cooled Switches Like?

The focus of network is on switch liquid cooling, and the focus of server is on GPU liquid cooling. Over the past 12 years, the power consumption of a typical switch system has increased by

© 2026 KENHARDT OPTICAL NETWORKS - All rights reserved

How Nvidia''s New Cooling Technology Could Solve the AI Energy

Nvidia''s new liquid-cooling technology could slash data center water usage and reduce cooling energy costs. Here''s what the Rubin platform means for AI, hyperscalers, and investors.

AI Datacenter Liquid Cooling Market | Global Market Analysis Report

AI Datacenter Liquid Cooling Market is segmented by Cooling Technology (Direct-to-chip liquid cooling, Immersion cooling, Rear-door heat exchangers), Deployment Type (Hyperscale AI

Liquid-Cooled AI Networking for AI Factories | Technivision

Liquid-Cooled AI Networking Is Redefining AI Factory Design AI factories are forcing enterprises to treat networking, cooling, power, security, and operations as one design problem.

Future of Data Centers in 2026: AI, Energy & Cooling

The future of data centers in 2026 focuses on AI demand, sustainable energy solutions, and cutting-edge cooling technologies for efficiency.

7 data center trends to watch—as seen at Data Centre

IoT Analytics conducted 50+ interviews on-site, producing a 36-page event and trends report with 26 individual data center trends. 7 of the standout

Data Center Liquid Cooling

Data Center Liquid Cooling - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2026 - 2031) - The data center liquid cooling market was valued at USD 5.52 billion in

AI Data Center Market, Size, Share & Trend Analysis

AI factories, sovereign AI clouds, liquid-cooled data centers, AI-specific colocation facilities, and edge AI infrastructure present significant growth opportunities.

Liquid Cooling to Scale in AI Data Centers, Penetration to Surpass

TrendForce''s latest research on the liquid cooling industry reveals that the rollout of NVIDIA''s GB200 NVL72 rack servers in 2025 will accelerate AI data center upgrades, driving liquid

CRAC Data Center 2026: Latest Trends, Pricing & Liquid Cooling Shift

2026-04-20 Content Understanding CRAC Data Center Cooling Fundamentals 2026 Market Trends: The Shift from Air to Liquid CRAC vs. CRAH vs. Liquid Cooling: A Strategic Comparison Pricing

© 2026 KENHARDT OPTICAL NETWORKS - All rights reserved

Battery Energy Storage System (BESS) Costs and LCOS in 2024

Liquid-Cooled Energy Storage Systems Liquid cooling has emerged as the preferred solution for thermal management in large-scale Battery Energy Storage Systems (BESS). Compared

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Contact Us

Continue your research online:

Website: https://kenhardtprimary.co.za
Technical inquiry: https://kenhardtprimary.co.za/project-desk.html
African project coordination: Century City, Cape Town, Western Cape, South Africa

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 KENHARDT OPTICAL NETWORKS - All rights reserved