

New Liquid-Cooled Switches Available Now



Article Overview

High-performance liquid-cooled switches from Cisco, HPE, and Alpha Networks are now available, offering up to 102.4 Tbps per chip with advanced direct-to-chip cooling for AI and HPC data centers.

Cisco Liquid-Cooled Switches

Cisco has developed direct-to-chip liquid-cooled switches, such as the 51.2T switch, designed to handle extreme thermal loads from high-density 400G and 800G ports . Key features include:

- Cooling coverage: Up to 80% of system heat is removed via liquid cooling targeting the CPU, Network Processing Unit (MPU), and front-end optics .
- Energy efficiency: Expected 30-50% energy savings compared to traditional air cooling .
- Cooling medium: Uses a PG25 mixture (75% water, 25% glycol) allowing operation with warm water, avoiding the need for extremely cold chilled water .
- Performance: Supports 64 ports of 800 Gbps OSFP optics, dissipating over 2,000 watts of heat efficiently .

HPE Slingshot 400

HPE's Slingshot 400 liquid-cooled switch is designed for high-performance computing (HPC) and AI clusters . Highlights include:

- Switch ASIC speed: 51.2 Tbps, fully liquid-cooled without fans.

Article Content

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

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

Industry First 1.6T Liquid Cooled Switch: QFX5250-64OE-L

Built for liquid cooling — the riding heat sink acts as a cold plate, letting liquid carry heat away far more efficiently than

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

Exploring the Future of AI Networking: Liquid-Cooled Switches on the Horizon Imagine a data center where even the most powerful

Deep Dive: Liquid-Cooled AI Switches for the Next Generation

As the demand for AI computing grows, liquid cooling technology has become the key to guaranteeing heat dissipation for high

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

Cisco is actively innovating in direct-to-chip liquid cooling for high-performance switches, laying the groundwork for solutions that will

Nintendo Switch 2: All Together, Anytime, Anywhere

New to Nintendo Switch 2? Get the fun going with these tips on setting everything up, playing together with friends and family,

Contact Us

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

Website: <https://www.yachtchartercapetown.co.za>

Email: info@yachtchartercapetown.co.za

Phone: +27 21 863 4927

Address: 1st Floor, The Towers, 1 St George's Mall, Cape Town, 8001, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

