

Offshore Liquid-Cooled Switch LPO



Overview

LPO modules reduce per-pluggable power from $\sim 30\text{W}$ with DSP-based optics to $\sim 10\text{W}$, enabling up to 50% system-level savings. Early tests show good receiver performance even under degraded conditions, though transmit paths remain sensitive to reflections and crosstalk at the connector. The demonstration showcases the next generation of high-performance connectivity, featuring support for cutting-edge 200G-per-lane 1.6Tbps Linear Pluggable Optics (LPO), Linear Receive Optics (LRO) Fully Retimed Optics (FRO). It highlights seamless interoperability between advanced 1.6T optics and Arista Networks co-founder Andreas Bechtolsheim used his keynote at IEEE Hot Interconnects 2025 to highlight how Linear Pluggable Optics (LPO) and new rack designs can dramatically cut power consumption in AI-scale networks. Cisco is actively innovating in direct-to-chip liquid cooling for high-performance switches, laying the groundwork for solutions that will enable seamless and. 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 conference and its recent analyst day. The company is reportedly developing an ORv3W-based data center server rack.



Article Content

Dec 07, 2025

Hot Interconnects: Arista Outlines Pathways to Energy ...

The design accommodates up to 16 × 2U switch blades with tool-less installation, tightly located liquid quick disconnects, and generous space for cable ...

Jun 03, 2026

What Are Next-Generation Liquid-cooled Switches Like?

The two types of liquid cooling used on a large scale in the data center field are cold-plate and submerged liquid cooling. Other types such as spray cooling have not been deployed on a ...

Oct 30, 2025

Arista Networks at OFC 2026

Features a live demonstration of a prototype liquid cooled switch that contains liquid cooled eXtra Dense Pluggable Optics XPO modules. It also showcases modules, connectors and components from ...

Feb 11, 2026

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

Arista Networks shared some of its plans to deliver liquid-cooled switches and racks that can significantly reduce power consumption in enterprise AI networks.

Nov 04, 2025

Liquid Cooling

With networking routers and switches, when a router goes down due to a leak/malfunction of the liquid cooling system, its impact (blast radius) is larger than a single server going down.

Jul 04, 2026

Hot Interconnects: Arista Outlines Pathways to Energy-Efficient Optics ...

The design accommodates up to 16 × 2U switch blades with tool-less installation, tightly located liquid quick disconnects, and generous space for cable management. Removing fans in liquid ...

Jul 15, 2026

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 ...

Jul 29, 2025

Arista Innovations: Harnessing Liquid Cooling and Optical Technology ...

Arista Networks has recently announced plans to implement liquid-cooled switches and racks designed to significantly reduce power consumption in enterprise AI networks.

Aug 13, 2025

More durable marine power systems with The Switch's innovative ...

For marine systems, we have developed an innovative design that incorporates the best aspects of liquid cooling systems while correcting the shortcomings of standard solutions. Standard ...

Apr 16, 2026

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. ...

Sep 18, 2025

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

Take steps now to modernize your facility and thermal management strategies for tomorrow's liquid-cooled switches. Meet with your Cisco team or partner to discuss how to design, ...

Contact Us

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

Website: <https://ntmmgroup.co.za>

Email: sales@ntmmgroup.co.za

Phone: +27 82 471 2596

Address: Unit 7, Optic Park, 24 High-Tech Lane, Century City, Cape Town,
7441, South Africa

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

