GDR Telecom Site Energy Systems

Data Center Liquid-Cooled Switches

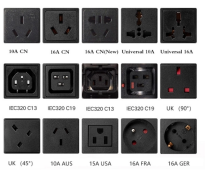
Overview

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 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. Racks running 30-100 kW workloads are now common in both hyperscale and enterprise deployments. The result?

Air cooling can no longer keep up. The thermal. Data center facility planners, thermal engineers and architects are responsible for enabling the mission critical internet and cloud services that we all depend on. This critical infrastructure allows us to take advantage of the benefits of rapidly developing technologies that are changing the way. Leads large-scale transformation, shaping and scaling new digital businesses September 24, 2025 Data center demand, driven by the needs of high-performance computing, data management, cloud computing, and generative AI

technologies, among many others, shows no signs of abating.

Data Center Liquid-Cooled Switches

	Explore our end-to-end liquid cooling solutions for AI, high-density IT, and sustainable thermal performance.
	Data center demand shows no signs of abating, but air-cooling systems are struggling. Liquid-cooled data centers offer a promising future.
	Liquid-based cooling technologies allow operators to achieve significant energy savings, reduce water usage, and support better power usage effectiveness (PUE) metrics across modern ...
	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 ...
	Liquid-to-air CDUs do not require a chilled water supply to provide liquid cooling to the rack, but rather provide an independent secondary fluid loop to the rack and reject heat to the data center.

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 ...

Discover why liquid cooling is replacing air systems in modern data centers. Explore its role in AI workloads, energy savings, and sustainability in 2025 and beyond.

Liquid cooling can be a good choice for protecting mission critical equipment and reducing downtime. Also, it can offer a strong return on investment and total cost of ownership for ...

Liquid cooling can help data centers increase capacity while maintaining efficient space and energy use. It can also offer a favorable return on investment and lower the total cost of ownership for data center ...

Cisco''s Liquid-Cooled 51.2T Switch: Next-Generation Data Center Efficiency Introduction: Addressing the Energy Challenge in Infrastructure In the ever-evolving landscape of data center infrastructure, ...

Contact Us

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