Liquid-cooled switch silicon photonics specifications and models

Nvidia has announced the Spectrum-X and Quantum-X silicon photonics networking switches, which they claim lower power consumption and improve deployment speeds.

This groundbreaking switch leverages a liquid-cooled design to efficiently cool the onboard silicon photonics. The NVIDIA Quantum-X InfiniBand Photonics switch supports network innovations that ...

NVIDIA has developed co-packaged optics (CPO) technology with TSMC for its upcoming Quantum-X InfiniBand and Spectrum-X Ethernet switches, integrating silicon photonics ...

Built-in liquid cooling keeps the onboard silicon photonics from overheating. According to NVIDIA, Quantum-X Photonics switches are 2x faster and offer 5x higher scalability for AI compute ...

Additionally, NVIDIA Quantum-X800 switches feature optional router capabilities, facilitating the expansion of InfiniBand clusters to support a large scale of nodes located across multiple sites.

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, ...

The Quantum-X InfiniBand switches include a liquid cooling system, ensuring the onboard silicon photonics chips operate at peak efficiency without ...

NVIDIA has unveiled a pair of co-packaged silicon photonics networking switches that it says will allow AI facilities to connect millions of GPUs across sites while drastically reducing energy ...

The Spectrum-X Photonics platform provides Ethernet-based switching with configurations of up to 400 Tbps of total bandwidth across 2,048 ports, while the Quantum-X ...

Compared with pluggable optical transceiver solutions, it reduces energy consumption by 3.5 times, improves network elasticity by 10 times, and improves deployment efficiency by 1.3 times. ...

The Quantum-X InfiniBand switches include a liquid cooling system, ensuring the onboard silicon photonics chips operate at peak efficiency without overheating.

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