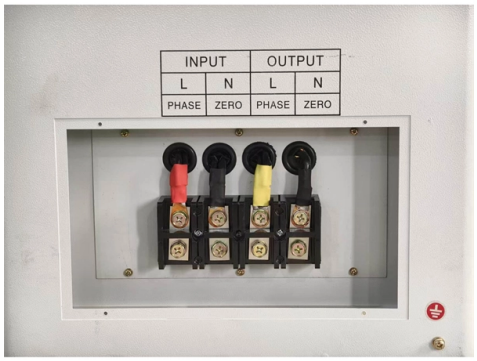
100G Liquid-Cooled Switch from a Kenyan Manufacturer



Overview

In partnership with the world''s most advanced semiconductor manufacturer, we are deploying our two-phase immersion-cooled 100G switch module and the SONiC open network operating system.

Key Takeaways

Currently, there are no known Kenyan manufacturers of 100G liquid-cooled switches; international options are available, and local distributors can supply standard high-speed switches.

International Liquid-



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Cooled 100G SwitchesDynaNET 100G-01 (Eurotech)Ports: 16x 40/56/100GbE QSFP28, expandable via breakout cables to 32x 50GbE or 64x 10/25GbEThroughput: 3. 2 Tb/s, 2. 38Bpps processing capacityLatency: 300 ns port-to-portCooling: Liquid-cooled, integrates with vehicle or system liquid cooling, no vents or moving partsApplications: Automotive, autonomous driving, artificial vision, high-performance computingCertifications: ISO 50498, ISO 16750-3, VDA320, LV-142, ECE R10Power: 12VDC or 48VDC automotive-grade supplyNotes: Rugged, compact, and customizable for branding and hardware configurations Accton Two-Phase Immersion-Cooled 100G SwitchCooling: Two-phase immersion for high-density server roomsDeployment: Top-of-Rack (ToR) or Leaf switch in Clos network architecturePerformance: 100Gbps data transmission, stable high-temperature operationSustainability: Reduces energy consumption by ~30% and lowers equipment failure ratesNotes: Modular design, compatible with SONiC OS, suitable for cloud and data center environments Local Sourcing in KenyaWhile no Kenyan manufacturer produces liquid-cooled 100G switches, local distributors can supply high-performance networking equipment: TDK Tech Store: Offers switches from TP-Link, D-Link, Cisco, and Tenda, including PoE and Ethernet switches suitable for enterprise networks.

They provide delivery across Kenya and East Africa, including Nairobi, Mombasa, Kisumu, and Eldoret. FS.com: Provides 100G switches for large enterprises and hyper-converged infrastructure, though these are imported and not liquid-cooled.

Recommendations

For specialized liquid-cooled 100G needs: Consider importing from Eurotech or Accton, as these are proven solutions for high-performance and rugged applications. For local deployment: Use high-speed air-cooled 100G switches from distributors like TDK Tech Store or FS.com, which are readily available in Kenya. Integration: If liquid cooling is required, consult with system integrators to adapt international switches to local infrastructure.

In summary, Kenya currently lacks domestic production of liquid-cooled 100G switches, but international options exist and local distributors can provide high-speed alternatives for enterprise and data center applications.

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Article Content

Two-Phase Immersion-Cooled 100G Switch Module – Accton

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Two-Phase Immersion-Cooled 100G Switch Module – Accton

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