



Liquid Cooling Solutions

Accelerate time-to-deployment with plug-and-play liquid-cooled total solutions





✓ 5,000+ Racks Per Month Capacity

- ✓ 1,350+ Liquid Cooled
 Racks Per Month Capacity
- ✓ Worldwide Manufacturing



OPEX savings over 5 years from DLC Optimized Data Center & DLC GPU Servers*



Reduction in data center server noise



Reduction in operating costs through lower power draw at server

SUPERMICE Liquid Cooling Solutions

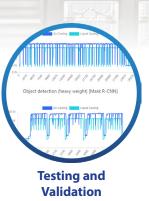


Make Direct Liquid Cooling Infrastructure easy for customers to deploy and maintain, including the facility-side cooling tower.



Solution Integration

Supermicro's **Rack Integration** Services leverage application optimized motherboards, chassis, cooling subsystems, networking components, cluster management tools, energy-efficient power supply technologies, and compact enclosures to design and develop customized and enterprise solutions.



The Supermicro process involves a rigorous set of test and validation phases that ensure the most optimized and vetted solution for environments where liquid cooling is required for maximum performance. Supermicro delivers Fully validated and tested solutions at system (L10), rack (L11) and cluster (L12) levels.

Deployment Supermicro delivers a complete solution, including servers, racks, networking, liquid cooling components, and liquid cooling tower which speeds up time to deployment and results in higher quality of the entire infrastructure. Supermicro offers accelerated lead times based on in-stock inventory with deployment in weeks versus years.



Management

The Supermicro SuperCloud Composer's LCCM (Liquid Cooling Consult Module) is a powerful service that collects vital information on physical assets and sensor data from the CPU/GPU to the CDU to the Cooling Tower, including including pressure, humidity, pump, valve status, and more. CDU data is presented in real-time, enabling operators to monitor operating efficiency of their liquid cooled environment.



The complete rack-scale solution is available directly from Supermicro, reducing lead times and eliminating multiple vendor contact points.



Liquid-Cooled Systems

Features	 Full portfolio of liquid- cooled systems available across multiple product families and form factors Custom cold plates for wide range of CPUs and GPUs
Product Families with Liquid Cooling Options	Al-Optimized GPU Servers SuperBlade® BigTwin® FatTwin® Hyper
Cold Plate Supporting List	Latest Intel® Xeon® processors Latest AMD EPYC™ processors NVIDIA HGX™ H100 8-GPU NVIDIA HGX™ H100 4-GPU NVIDIA GH200 Grace™ Hopper Superchip AMD Instinct™ M1300X DIMM module



Cooling Distribution Unit

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tures	• Maximum uptime and redundancy • Peak operating • 1.002 pPUE
n Factor	4U Rackmount
ension	480mm (W) x 1160.7mm (D) x 177mm (H)
ling acity	100kW Support up to 45°C facility water
lant	Propylene glycol 25 wt%
ıp	1+1 Redundant, hot- swappable Over 99% uptime
/er	1+1 Redundant, hot- swappable PSUs



Manifold

Features	•Optimized flow distribution
CDM Types	Vertical CDM Horizontal CDM
Rack Unit Support	Vertical CDM: 42U and 48U Horizontal CDM: 1U
Sensors	Liquid level sensor
QDC (Quick Disconnect Coupling)	Non-spill design One-handed QDC operation Low liquid flow resistance Color coding



Cooling Tower

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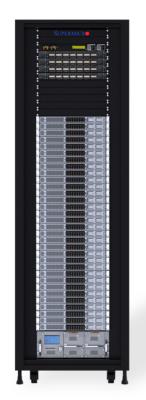
Wate Temp

Pow cons

ng city	Available in different sizes with multiple cell configurations up to a maximum of 10MW per unit
ndancy	Each cell can be used separately, enabling cooling tower redundancy
IN	Closed-loop design to optimize system reliability
r Jerature	High Temperature Fills (>60°C) – Higher temperature water can be returned to the cooling tower enabling higher efficiency
er Imption	Low power consumption with 6.2kW/MW of cooling



Liquid Cooled Rack Configurations



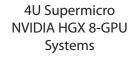






Supermicro Blade Systems

Supermicro NVIDIA MGX Systems with GH200 8U Supermicro NVIDIA HGX 8-GPU Systems



Additional Liquid-Cooled Rack Configurations Available

48U Rack Components

(Note: not all components listed. Configurations may vary)

Product	Qty	Product	Qty
upermicro ARS- 11GL-DNHR-LCC	32	Supermicro 8U NVIDIA HGX 8-GPU Server	4
CDU	1	CDU	1
al CDM	1		1
		Vertical CDM	I
		Horizontal CDM	4

www.supermicro.com/liquid-cooling

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