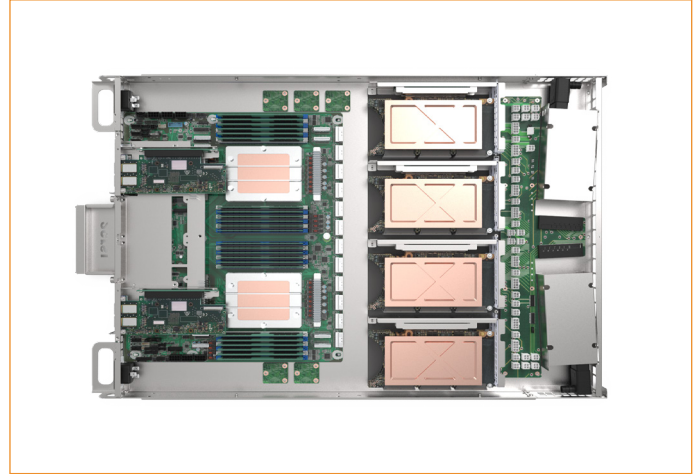
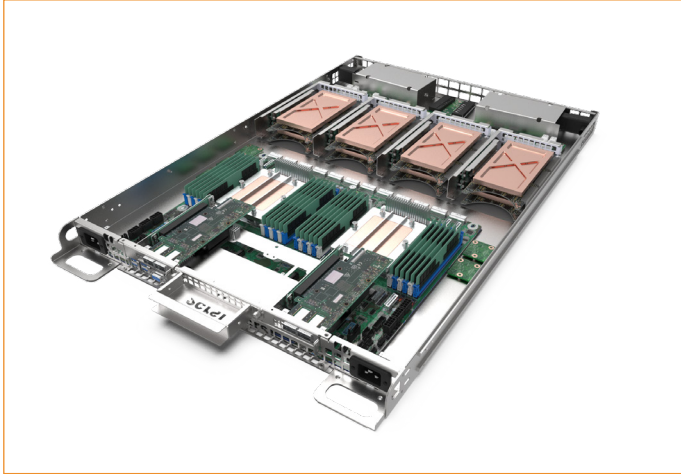


Atlas 1.8GG

TWO-PHASE IMMERSION
HIGH DENSITY GPU SERVER



No contractual

Key Features



21-inch 1 OpenU



Dual AMD EPYC™ 9004
Socket SP5



24x DDR5 @ 4800MHz



8x PCIe 5.0 x16 FH-FL
2x PCIe 5.0 x16 HH-HL



Two-phase immersion

The ultimate 1U server for AI, Machine Learning and HPC

The Atlas 1.8GG server supports up to 8 GPUs in an incredibly hyper-dense configuration, a feat only possible through our advanced dual-phase immersion cooling technology.

Our innovative cooling system ensures peak performance and reliability by efficiently managing the heat generated by high-density GPUs. This breakthrough allows us to pack unprecedented power into a compact 1U form factor, transforming the landscape of data center capabilities.

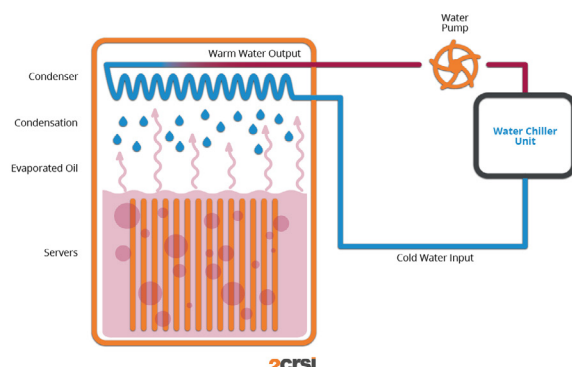
The first server designed for Two-phase immersion!

Two-phase immersion cooling is a cooling method that entails submerging electronic components in a non-conductive liquid. This liquid evaporates on contact with the heated components in the heated zone (this is the first phase) and the resulting vapor condenses at a zone where a condenser is placed above the evaporator (this is the second phase).

The condenser is maintained at a specific temperature by an external secondary circuit. Due to the descending fluid having a greater density than the rising vapor, an Archimedean force is created between the two phases.

This method has several advantages over traditional air cooling:

- a constancy of the temperature of the computer components, making it possible to improve and stabilize their performance
- lower energy consumption dedicated to server cooling
- a higher density of servers due to a higher thermal conductivity of the liquid compared to the air (~ 3000x).





SPECIFICATIONS

system	Model	Atlas 1.8GG
	Form factor	21-inch 1OpenU
	Dimension	762 x 537 x 45.5mm (latch to hard stop) 30"x 21" x 1.8" (latch to hard stop)
	Cooling technology	Two-phase immersion
Storage	Internal type	2x M.2 NVMe PCIe 3.0 x4 or SATA 6Gb/s 2280/22110
Motherboard	CPU	Dual AMD EPYC™ 9xx4 Genoa, Bergamo and Genoa-X with AMD 3D V-Cache™ Technology Series Processor families, up to 128-core, 256 threads per processor, cTDP up to 400W
	Chipset	System on chip
	Expansion slots	8x PCIe 5.0 x16 for FH-FL for GPUs (internal) 2x PCIe 5.0 x16 for HH-HL cards (Front)
	BMC	ASPEED AST2600
Memory	Total slots	24 (12-channel)
	Total Capacity	Up to 12TB, from 16GB to 512GB per module
	Memory type	DDR5 4800 MHz (1DPC) / 4000MHz (2DPC)
Network	Onboard	1x 1GbE Management Port dedicated to the IPMI 2x 1GbE RJ45
I/O	Front	4x USB 3.2 Port (Type A) 1x VGA 2x RJ45 1x RJ45 dedicated IPMI
Management solution	Software	WebGUI, IPMI 2.0 and RESTful APIs (Redfish)
	Remote management	iKVM module, Remote Update (OoB), Platform Firmware Resilience
Power supply	Type	2x 3600W PCRPS 80 PLUS Titanium (96%)
	Power rating	7200W
Warranty	<p>2CRSi hardware warranty includes a one year, parts and labour with return to 2CRSi selling entity. Customers may purchase an extended warranty of up to 3 years on parts and labour with different support levels. Please contact 2CRSi at support@2crsi.com or reach your sales point of contact for complete warranty details including limitations and transferability.</p> <p>2crsi.com/global-location</p>	

BLOC DIAGRAM

