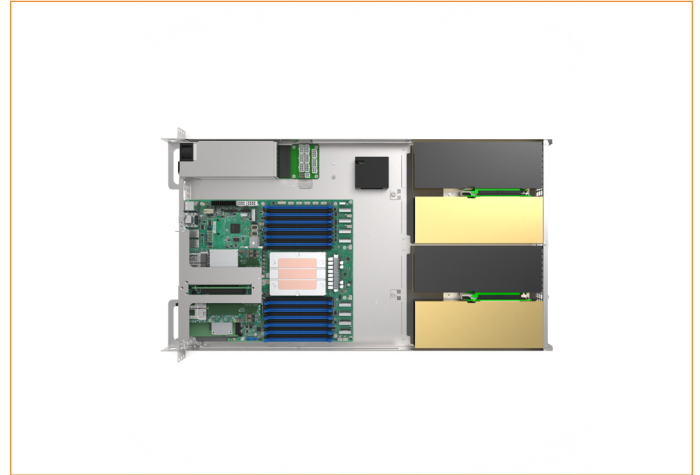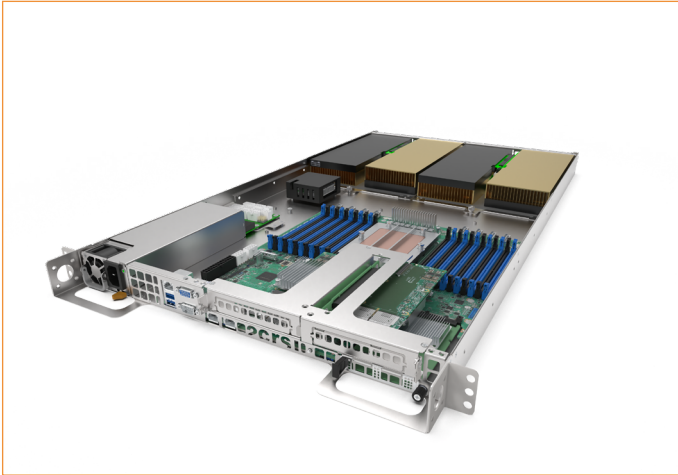# ATLANTIS 1.4SP5-S

IMMERSION-OPTIMIZED AI & HPC PLATFORM

Powered by AMD EPYC™ 9005 Series for AI, HPC & Cloud Workloads

No contractual

Key Features

19-inch 1U

Single AMD EPYC™ 9005 Socket SP5

24× DDR5 5200 MHz (EPYC 9005)
24× DDR5 4800 MHz (EPYC 9004 / 97x4)

4x PCIe 5.0 x16 FH FL DW
2x PCIe 5.0 x16 HH HL
1x PCIe 5.0 OCP 3.0

Immersion cooling

SCAN THE CODE!
TO DISCOVER MORE ABOUT THIS PRODUCT

Extreme Compute Density With Dual CPUs & 4 GPUs

Built for next-generation AI and high-performance computing, the Atlantis 1.4SP5-S combines dual AMD EPYC™ 9005 processors with up to four 350 W GPUs.

This platform delivers exceptional floating-point throughput, massive memory bandwidth, and the parallel processing power required for the most demanding AI training, inference, and simulation workloads.

Engineered for Immersion Cooling

Purpose-built for immersion, the Atlantis 1.4 SP5-S maximizes thermal efficiency and stability under extreme loads.

Thanks to the uniform cooling environment, GPUs and CPUs maintain optimal performance even at sustained 600W GPU power draw. Say goodbye to throttling and hello to consistent, peak-level compute output, ideal for large-scale data centers, AI farms, and HPC clusters.

Optimized Density

One of the features of the Atlantis 1.4SP5-S is its exceptional density optimisation. By using immersion cooling, the Atlantis 1.4SP5-S minimises the space required for heat dissipation mechanisms such as fans and air ducts.

This space-saving design makes it possible to increase the density of server racks, maximising the number of servers that can be housed in a given space. Atlantis 1.4SP5-S sets new standards in server density, enabling data centres to optimise their floor space and scale their operations efficiently.

Enhanced Power Efficiency

The Atlantis 1.4SP5-S has been designed with a focus on energy efficiency, to enable sustainable and cost-effective data centre operations. Immersion cooling significantly reduces the power consumption typically associated with air-cooled systems, resulting in substantial energy savings.

Optimized for Next-Generation AI Workloads

Whether powering multi-GPU training, LLM inference at scale, mixed-precision computing, or advanced HPC simulations, the Atlantis 1.4 SP5-S delivers unmatched reliability, power density, and immersion-ready efficiency.

It is the ideal foundation for enterprises, research labs, and cloud AI providers building tomorrow's accelerated data centers.

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ATLANTIS 1.4SP5-S

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SPECIFICIATIONS

system	Model	Atlantis 1.4 SP5-S
	Form factor	19-inch 1U
	Dimension	482.6mm (W) x 798mm (D) x 44mm (H) 18.98" x 31.41" x 1.75" (W x D x H)
	Cooling technology	Immersion Cooling
Storage	Internal	2x M.2 NVMe PCIe 5.0 x4 22110 Optional: 4x M.2 NVMe 4.0x2 22110
Motherboard	CPU	Single socket SP5 AMD EPYC™ 9005/9004 (with AMD 3D V-Cache™ Technology) and 97x4 series processors
	Chipset	System on chip
	Expansion slots	2x PCIe 5.0 x16 for HH-HL cards (Front) 4x PCIe 5.0 x16 for FH-FL DW 260mm (internal) for accelerator cards (Datacenter or workstation types) up to 350W 1x PCIe 5.0 x16 OCP v3.0 LAN mezzanine slot
	TPM	Optional TPM 2.0 module (Nuvoton NPCT650 or INFINEON SLB9665)
	BMC	Aspeed 2600
Memory	Total slots	24 DIMMs slots (12-channel per CPU) Up to 6TB 4800 MT/s DDR5 memory
	Total Capacity	Up to 12TB, from 16GB to 512GB per module
	Memory type	AMD EPYC™ 9005: DDR5 5200 MHz (1DPC/2DPC) AMD EPYC™ 9004: DDR5 4800 MHz (1DPC) / 4000MHz (2DPC)
Network	Onboard	2x Intel® i350-AM2: 2 RJ45 (1GbE)
	OCP 3.0 Options	1 OCP NIC 3.0 (PCIe5.0 x16)
I/O	Front	2 Type-A (USB3.2 Gen1) 2x RJ45 1x Management port 1x VGA 1x DB9 Serial Port
Management solution	Software	WebGUI, IPMI 2.0 and RESTful APIs (Redfish)
	Remote management	WebGUI, Intelligent Platform Management Interface (IPMI)
Power supply	Type	1x 2200W CRPS Titanium (96%) PSU
Operating environement	Operating temperature	10°c ~ 40°C
	Non-operating temperature	-40°c ~ 70°C
	Operative relative humidity	20% ~90% (Non condensing)
Warranty		**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. 2crsi.com/global-location

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2CRSi, Specifications are subject to change. Please verify with your sales representative for latest revision.