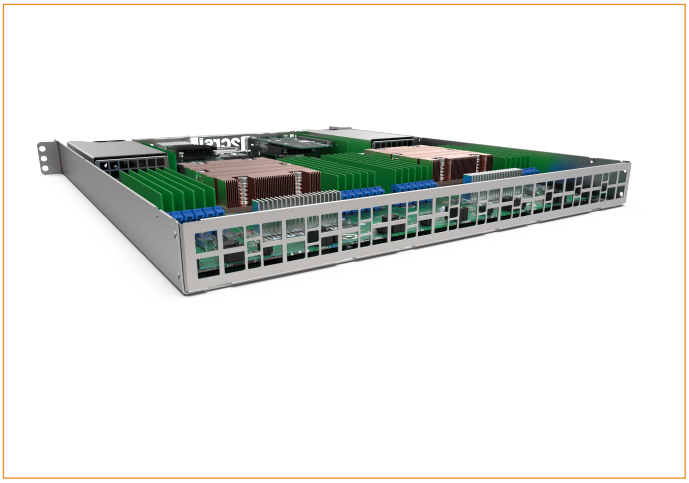
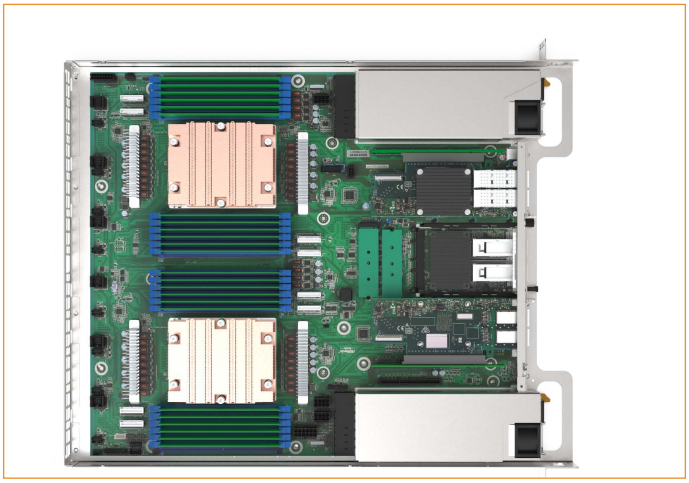
DATASHEET

Atlantis 1GG

Dual SP5 socket server designed for immersion





No contractual

Key Features

- 19-inch 1U
- Dual AMD EPYC™ 9004 Socket SP5
- 24x DDR5 @ 4800MHz
- 2x PCIe 5.0 x16 HH HL
  1x OCP 3.0
- Immersion cooling

AMD EPYC™ 9004 Series Processors family

The AMD EPYC™ 9004 Series Processors family also offers industry-leading security features, including Secure Memory Encryption (SME) and Secure Encrypted Virtualization (SEV), providing robust protection for your critical data and applications. Moreover, the processors are compatible with the latest PCIe 5.0 standard, enabling faster data transfer rates and reducing latency to further enhance your computing experience.

Efficient Immersion Cooling

The Atlantis 1GG is specifically designed for immersion cooling configurations, offering unrivalled efficiency in heat dissipation. The immersion cooling process involves immersing server components in a dielectric liquid, ensuring more efficient heat transfer compared to traditional air cooling methods. The Atlantis 1GG capitalises on this principle, using immersion cooling to achieve precise temperature control and significantly reduce the power consumption associated with thermal management.

Optimized Density

One of the features of the Atlantis 1GG is its exceptional density optimisation. By using immersion cooling, the Atlantis 1GG 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 1GG sets new standards in server density, enabling data centres to optimise their floor space and scale their operations efficiently.

Enhanced Power Efficiency

The Atlantis 1GG 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. Thanks to the energy-efficient design of the Atlantis 1GG, data centres can significantly reduce their carbon footprint while benefiting from reduced operational costs and increased environmental sustainability.

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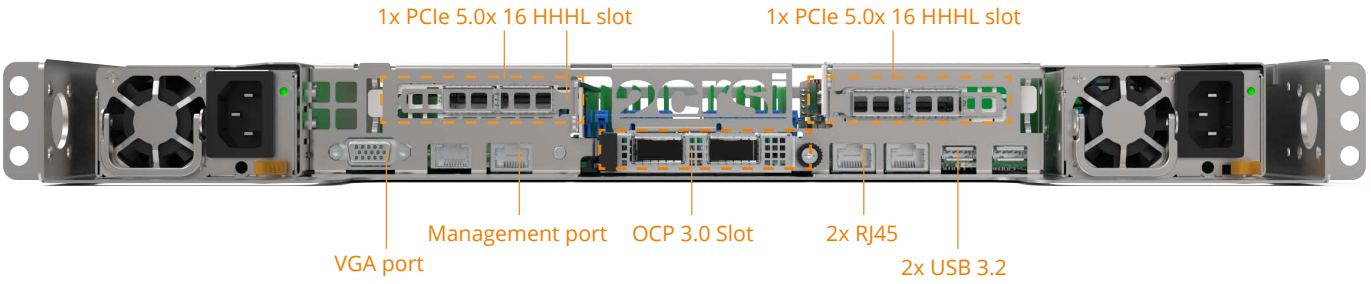

SPECIFICIATIONS

system	**Model**	Atlantis 1GG immersion
	Form factor	19-inch 1U
	Dimension	482.6mm (W) x 520mm (D) x 44mm (H) 18.98" x 20.47" x 1.75" (W x D x H)
	Cooling technology	Immersion cooling
	TDP max per server	1600W
Storage	**Internal type**	1x M.2 NVMe PCie 3.0 x4 2280/2260/2242/2230 on CPU0 1x M.2 NVMe PCie 3.0 x4 2280/2242 on CPU1
	RAID controler	Optional
Motherboard	**CPU**	AMD EPYC™ 9xx4 Genoa, Bergamo and Genoa-X with AMD 3D V-Cache™ Technology Series Socket Dual SP5
	Chipset	System on chip
	Expansion slots	2x PCIe 5.0 x16 for HH-HL cards (Front) 1x PCIe 5.0 x16 OCP v3.0 slot
	TPM	TPM 2.0 (optional)
	BMC	Aspeed 2600
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 Intel® i350
	OCP 3.0 Options	2x 25GbE (SFP28) 2x 100GbE (QSFP56 / QSFP28) 2x 200GbE (QSFP56)
I/O	**Front**	2x USB 3.2 Port (Type A) 1x SVGA 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**	1+1 Redundant CRPS
	Power rating	1600W 180–240Vac
	Power efficiency	80 PLUS Titanum (96%)