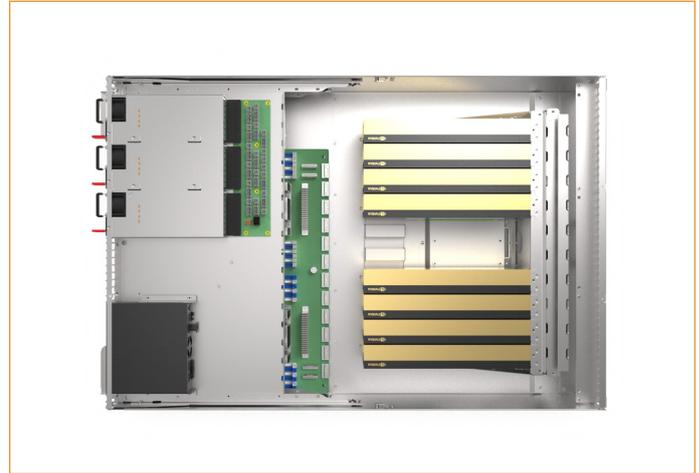


# Atlas 1.8 SP5-D 30U 30U

## IMMERSION-OPTIMIZED AI & HPC PLATFORM

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



No contractual

### Key Features per node



21-inch 20OpenU



Dual AMD EPYC™ 9004-9005  
Socket SP5



24× DDR5 @ 6400 MHz  
(EPYC 9005)  
24× DDR5 @ 4800 MHz  
(EPYC 9004 / 97x4)



8x PCIe 5.0 x16 for GPUs



Immersion cooling

### Extreme Compute Density With Dual CPUs & 8× 600 W GPUs

Built for next-generation AI and high-performance computing, the Atlas 1.8 SP5D combines dual AMD EPYC™ SP5 processors with up to eight 600 W GPUs, including NVIDIA H200 NVL4 and RTX 6000 Blackwell Pro Server Edition options. 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.

### Scalable High-Speed Storage With up to 12× E1.S Drives

Designed for modern AI pipelines and high-velocity data workflows, the platform supports up to 12 front-accessible E1.S NVMe drives. This configuration provides ultra-low latency and massive parallel throughput, enabling faster dataset loading, checkpointing, and retrieval for complex AI operations..

### Enhanced Connectivity With 4× PCIe Expansion Slots

To meet the growing needs of AI-driven infrastructures, the Atlas 1.8 SP5D integrates up to four PCIe Gen5 expansion slots. These allow seamless addition of high-bandwidth networking cards, DPUs, storage accelerators, or interconnect technologies—unlocking flexible scaling and future-proofing for evolving computational demands.

### Optimized for Next-Generation AI Workloads

Whether powering multi-GPU training, LLM inference at scale, mixed-precision computing, or advanced HPC simulations, the Atlas 1.8 SP5D 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.

### Engineered for Immersion Cooling

Purpose-built for immersion, the Atlas 1.8 SP5D maximizes thermal efficiency and stability under extreme loads. Thanks to the uniform cooling environment, GPUs and CPUs maintain optimal performance even at sustained 600 W 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.



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

## SPECIFICATIONS

<b>system</b>	<b>Model</b>	Atlas 1.8 SP5-D 30U
	<b>Form factor</b>	21-inch 3OpenU
	<b>Dimension</b>	880 x 537 x 86mm (D x W x H)
	<b>Cooling technology</b>	Immersion Cooling single phase
<b>Storage</b>	<b>Internal type per node</b>	1x M.2 (Gen3 x4 link, PCIe or SATA 6Gb/s); 22110/2280 [CPU0] 1x M.2 (Gen3 x4 link, PCIe or SATA 6Gb/s); 22110/2280 [CPU1]
	<b>External type per node</b>	See SKUs table
	<b>RAID controller</b>	MegaRAID 9660-16i (Gen4) Tri-Mode RAID Adapter (Optional)
<b>Motherboard</b>	<b>CPU per node</b>	Dual AMD EPYC™ 9xx5/9xx4 Turin, Genoa, Bergamo and Genoa-X with AMD 3D V-Cache™ Technology Series Processor families, up to 160-core, 320 threads per processor, cTDP up to 400W
	<b>Chipset</b>	System on chip
	<b>GPU slots</b>	4x PCIe x16 (Gen5 x16 link), FH-FL DW [CPU0] 4x PCIe x16 (Gen5 x16 link), FH-FL DW [CPU1] For GPU TDP up to 600W (RTX PRO 6000 and H200 NVL4 supported)
	<b>Expansion slots</b>	See SKUs table
	<b>TPM per node</b>	1x TPM header with SPI interface for TPM 2.0 module optional
	<b>BMC</b>	Aspeed 2600
	<b>Memory</b>	<b>Total slots per node</b>
	<b>Total Capacity per node</b>	RDIMM modules up to 128GB supported 3DS RDIMM modules up to 512GB supported
	<b>Memory type and speed</b>	AMD EPYC™ 9005: RDIMM Up to 6400 MT/s AMD EPYC™ 9004: RDIMM Up to 4800 MT/s
<b>Network</b>	<b>Onboard</b>	1x Realtek RTL8211E for dedicated management GLAN 2x 1GbE LAN ports (1 x Intel® i350-AM2), support NCSI
<b>I/O</b>	<b>Front</b>	4x USB 3.2 Gen1 type A 1x DB15 (VGA) 2x RJ45 1x RJ45 Management port
	<b>Switch / LED</b>	1x Power button with LED 1x ID button with LED 1x HDD LED 1x Status LED 1x System reset button
<b>Management solution</b>	<b>Software</b>	Aspeed® AST2600 management controller
	<b>Remote management</b>	BMC Remote control based on Aspeed® AST2600 remote management controller. (Power Control Configuration, Chassis Identify, Boot Option, iKVM, BMC Account Configuration)
<b>Power supply</b>	<b>Type</b>	2+1 Redundant 3200W CRPS PSUs 80 PLUS Titanium (96%)
<b>Operating environment</b>	<b>Operating temperature</b>	10°C ~ 40°C (50°F ~ 104°F)
	<b>Non-operating temperature</b>	-40°C ~ 60°C (40° ~ 140°F)
	<b>Operative relative humidity</b>	95%, non-condensing at 35° C
<b>Warranty</b>	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 <a href="mailto:support@2crsi.com">support@2crsi.com</a> or reach your sales point of contact for complete warranty details including limitations and transferability. <a href="https://2crsi.com/global-location">2crsi.com/global-location</a>	

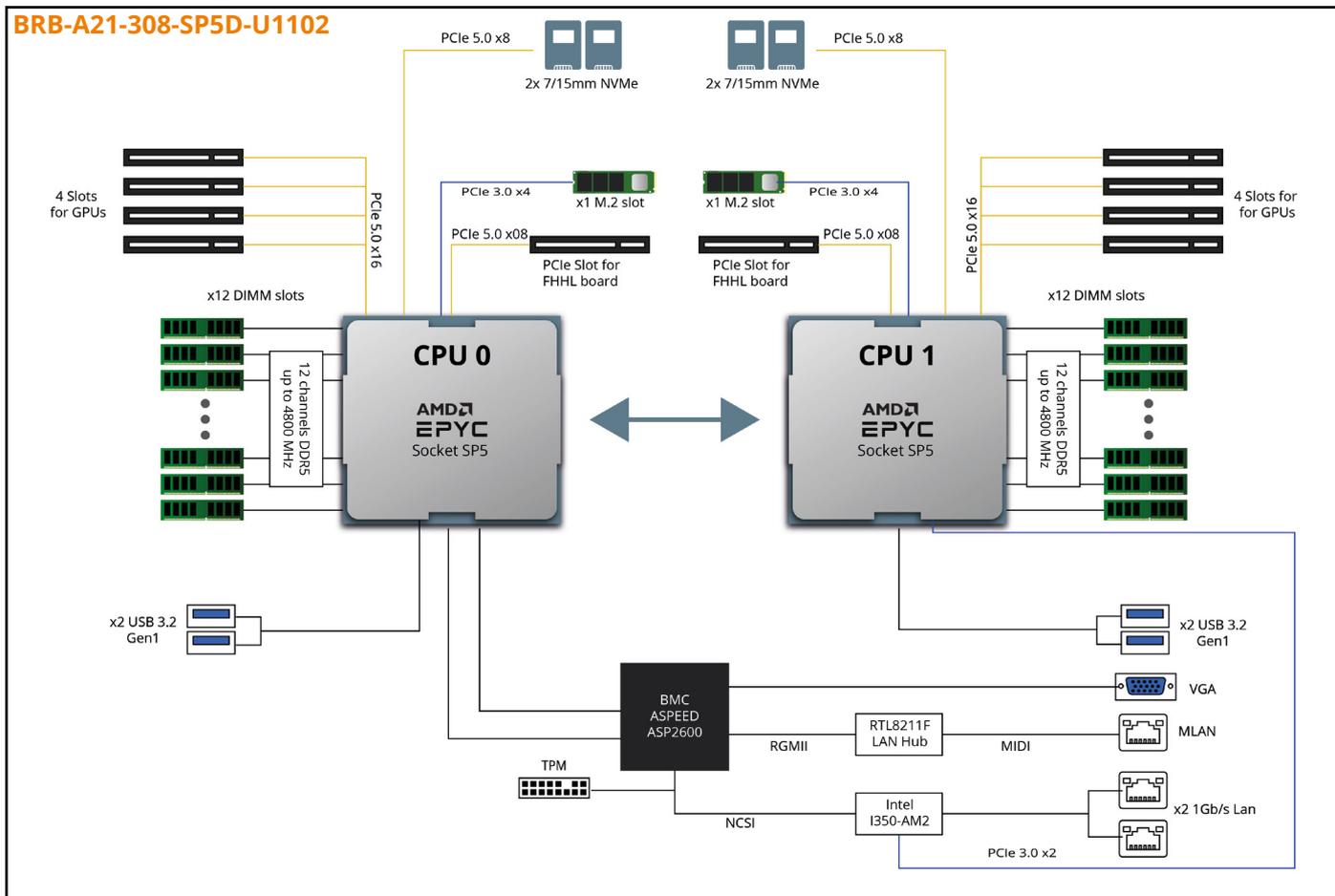
# Atlas 1.8 SP5-D 30U



SKUs list

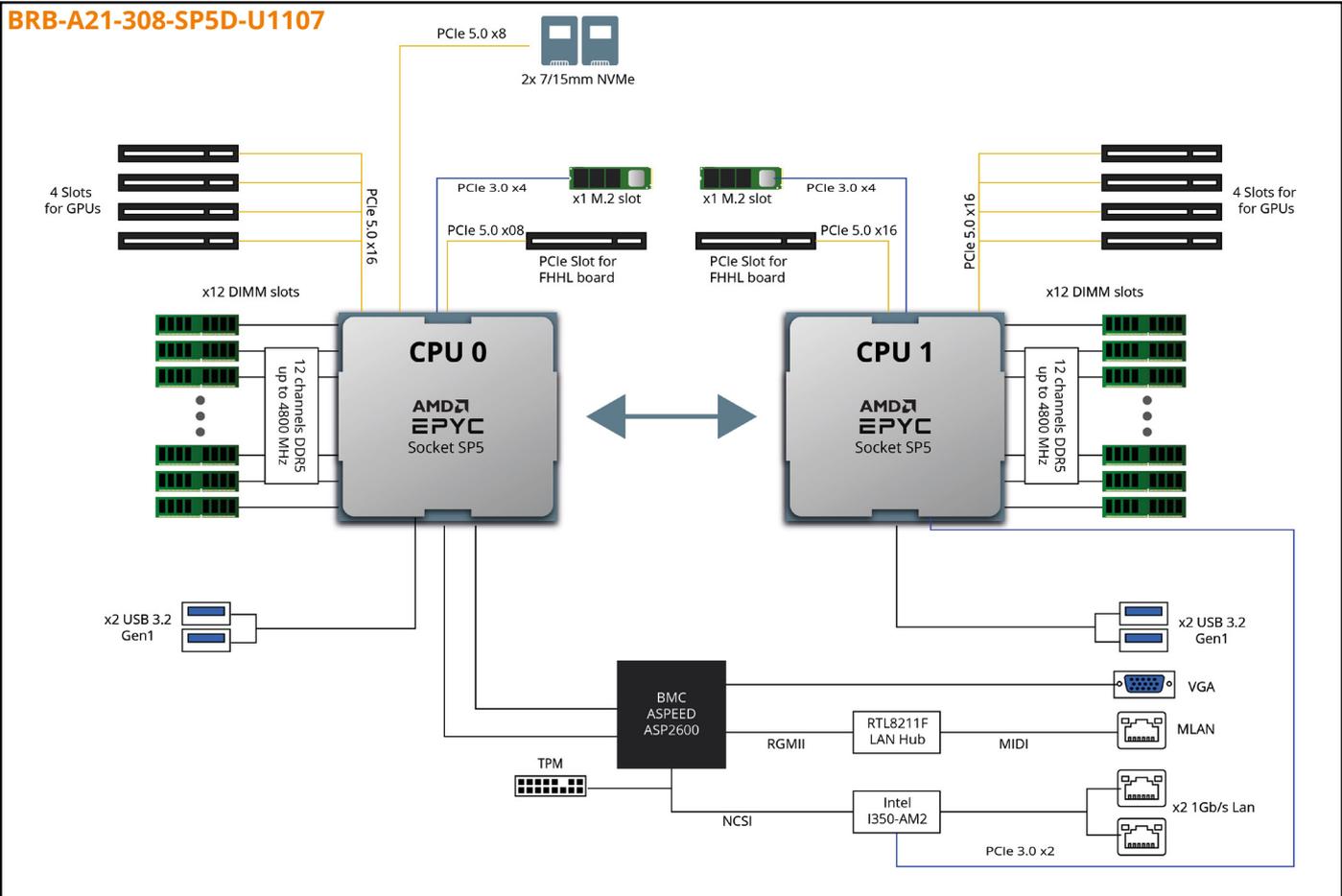
SKU	Front storage	Front Expansion slots
BRB-A21-308-SP5D-U1102	2x 7/15mm NVMe (PCIe G5) 32Gbps hot-swappable bays [CPU0] 2x 7/15mm NVMe (PCIe G5) 32Gbps hot-swappable bays [CPU1]	1x PCIe x16 (Gen5 x8 link), FH-HL [CPU0] 1x PCIe x16 (Gen5 x8 link), FH-HL [CPU1]
BRB-A21-308-SP5D-U1107	2x 7/15mm NVMe (PCIe G5) 32Gbps hot-swappable bays [CPU0]	1x PCIe x16 (Gen5 x16 link), FH-HL [CPU1]
BRB-A21-308-SP5D-U1166	4x 7.5mm E1.S NVMe (PCIe G5) 32Gbps hot-swappable bays [CPU0] 4x 7.5mm E1.S NVMe (PCIe G5) 32Gbps hot-swappable bays [CPU1]	1x PCIe x16 (Gen5 x16 link), FH-HL [CPU0] 1x PCIe x16 (Gen5 x16 link), FH-HL [CPU1] 2x PCIe x16 (Gen5 x16 link), FH-HL [PLX CPU0] 2x PCIe x16 (Gen5 x16 link), FH-HL [PLX CPU1]

## BLOCK DIAGRAMS



# Atlas 1.8 SP5-D 30U

## BRB-A21-308-SP5D-U1107



## BRB-A21-308-SP5D-U1166

