



# meta brain® server i24G7

# New Generation High-Density Multi-Node Server

[Using AMD processors]



## **Overview**

i24G7 is latest 2U 4-node server which is optimized for data center and high-speed computing. i24G7 is powered by 8x latest AMD EPYC™ 9004 series Processors with liquid cooling solution covering CPU, memory and VR module, meet low PUE requirements. i24G7 is optimized in terms of heat dissipation, power supply, monitoring and management to meet the requirements of customers for the ultimate performance experience and new generation of high-density energy-saving data centers.

# **Description of Applicable Models**

Model of Server	Model of Node	Front/Rear Access	Cooling
i24-A7-A0-R0-00	NS5180-A7-A0-R0-00	Rear	Air Cooling
i24-A7-C0-R0-00	NS5180-A7-C0-R0-00	Rear	Liquid cooling

### **Product Features**

#### **Extreme Performance**

- Powered by 8x latest AMD EPYC<sup>™</sup> 9004 series Processors Each node supports 24 DDR5 DIMM, Up to 6TB
- Support NDR InfiniBand , providing high-bandwidth node interconnection

#### Intelligent Maintenance

- Precise water leakage detection, leakage node can be located accurately and powered off automatically, effectively reducing risks
- 3D dynamic management for cabinet environment monitoring temperature, humidity and leakage information in real time, achieving intelligent maintenance

#### **High Efficiency Liquid Cooling**

- Reliable full cold-plate liquid cooling design for CPU+DIM-M+VR, meet low PUE requirements
- Less cooling devices deployment in data center, significantly optimizing datacenter TCO

#### Flexible Deployment

- Integrated and simplified delivery of the whole cabinet
- Exclusive air-liquid CDU solution, quickly deploying liquid-cooled system without data center modification
- Supporting Liquid-liquid CDU, one-site agile deployment of datacenter

# **Product Specifications**

Model	i24-A7-A0-R0-00 (Air cooling) /i24-A7-C0-R0-00 (Liquid cooling)	
Specifications	4 independent hot-swappable nodes in 2U Chassis	
Storage	Config 1: 8*2.5 inches SATA/NVMe SSD (7mm)	
Storage	Config 2: 4*2.5 inches SATA/NVMe SSD (15mm)	
PSU	4+2200W Platinum/Titanium PSUs or 2700W Titanium PSUs, support N+N redundancy	
Cooling	Air cooling: Four or five 8086 fans in the front of the chassis, N+1 redundancy	
Cooming	Liquid cooling: 2x8080 fans in the front of the chassis, N+1 redundancy, node liquid cooling	
Chassis	447mm(W)*87mm(H)*896mm(D), without chassis lugs	
Olidoolo	447mm(W)*87mm(H)*921mm(D), with lugs	
Operating temperature	Air cooling: 5 ℃ ~40 ℃	
operating temperature	Liquid cooling: 5 ℃ ~45 ℃	
Weight	net weight: < 54kg (fully equipped)	
	gross weight: <80kg (host+package+rail+accessory+pallet)	
	Air cooling and liquid cooling are different, refer to the technical white paper for details	
Node	NS5180-A7-A0-R0-00 (Air cooling) / NS5180-A7-C0-R0-00 (Liquid cooling)	
Specifications	1U half-width 2-socket compute node	
CPU	2*AMD EPYC™ 9004 series Processors per node, 4 GMI links,TDP 400W(The operating temperature is limited when 400W CPU is supported under air cooling); Supports 500W CPU under liquid cooling	
Memory	24 DDR5 4800MHz RDIMM per node	
PCIe expansion	Air cooling: 1 PCle 5.0 x16+1 PCle 4.0 x16 slots per node	
	Liquid cooling: 1 PCle 5.0 x16 slot per node	
10	Front: 2*USB2.0, 1*VGA, 1*PWR button, 1*UID	
	Rear: 1*RJ45, 1*UID, 1*RST button, 1*micro USB for debug, 1*micro USB	
Storage	Config 1: 2*2.5 inches SATA/NVMe SSD(7mm) per node	
	Config 2: 1*2.5 inches SATA/NVMe SSD(15mm) per node	
	2*SATA/PCle M.2 per node	
BMC	Aspeed AST2600	
TPM	TPM2.0	
NIC	1+OCP 3.0 card per node,can also support PCIe network card	
os	Red Hat Enterprise Linux8.6/9.0、SLES 15、CentOS 8、Ubuntu 22.04.01, etc	