

Vantageo 24G1-RU-VGX

Flexible, Scalable, and Secure



AMD EPYC™ 9004 dual-processor 1U server that supports up to 24 DIMM, 4 NVMe, three PCIe® 5.0 slots, two M.2, OCP 3.0, one dual-slot GPU.

1. Powerful performance: Powered by AMD EPYC™ 9004 processors with 128 Zen 4c cores, 12-channel, up to 4800 MHz DDR5 and support for a maximum TDP of up to 400 watts per socket
2. AI and HPC workloads ready: Up to eight dual-slot active or passive GPUs, NVIDIA NVLink® bridge, and NVIDIA Bluefield DPU support to enable performance scaling
3. Power-efficient system design: Independent CPU and GPU airflow tunnels for thermal optimization and support for up to four 3000W Titanium redundant power supplies for uninterrupted operation
4. Cooling solutions: Enhanced air cooling based on CPU TDP for versatile workloads
5. Scale-up storage and expansion design: A total of eight bays in combination of Tri-Mode NVMe/SATA/SAS drives on the front panel and 11 PCIe 5.0 slots for higher bandwidth and system upgrade
6. Flexible networking module design: Optional OCP 3.0 module with PCIe 5.0 slot in rear panel for faster connectivity
7. Enhanced IT-infrastructure management: Remote control with ASPEED AST2600, Vantageo Control Center IT management software and hardware-level Root-of-Trust solution

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Features	Technical Specification
Processor	2 x Socket (LGA 6096) AMD EPYC™ 9004 series(up to 400W) 4th Generation AMD EPYC Processors with AMD 3D V-Cache technology
Memory	Total Slots: 24 (12 channel per CPU, 12 DIMM per CPU) Capacity: Maximum up to 3TB per CPU socket Memory Type: DDR5 4800/4400 RDIMM/ 3DS RDIMM Memory Size: 64GB, 32GB, 16GB RDIMM 256GB, 128GB RDIMM 3DS
Expansion Slots	8 x PCIe slots (Gen5 x16 link, FH,FL) for dual-slot GPU cards SKU-1 (3PCIe) Front: 1 x PCIe slot (Gen5 x8 link ,LP,HL) for HBA/RAID cards Rear: 1 x PCIe slot (Gen5 x16 link) for NIC 1 x PCIe slot (Gen5 x8 link) for NIC SKU-2 (2PCIe + 2NVMe) Front: 1 x PCIe slot (Gen5 x8 link ,LP,HL) for HBA/RAID cards Rear: 1 x PCIe slot (Gen5 x16 link) for NIC SKU-3 (1PCIe + 1OCP3.0 + 2NVMe) Front: 1 x PCIe slot (Gen5 x8 link ,LP,HL) for HBA/RAID cards Rear: 1 x OCP3.0 NIC socket (Gen5 x16 link)
Storage	Optional Kits: -Broadcom MegaRAID 9560-16i -Broadcom MegaRAID 9540-8i -ASUS PIKE II 3008 8-port HBA Card -ASUS PIKE II 3108 8-port HW RAID Card
Drive Bays	8 x 3.5"/2.5" Front Hot-swap Storage Bays (Backplane supports up to 8 x NVMe*/SATA/SAS**) *NVMe support on selected SKUs *SAS support requires an optional HBA/RAID card 1 x M.2 Socket, supports up to 22110 type (PCIe Gen3 x4 link)
Networking	2 x 10GbE LAN ports (RJ45, X710-AT2) or 2 x Gigabit LAN ports (RJ45, I350-AM2) 1 x Management Port
Front I/O Ports	2 x USB 3.2 Gen1 ports 1 x VGA port
Rear I/O Ports	1 x COM port 2 x 10GbE/1GbE LAN ports (RJ45, build for order) 1 x Management port (RJ45)

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Features	Technical Specification
Switch/LED	Front : 1 x Power Button w/LED 1 x Location Button w/LED 1 x Message LED 1 x Q-Code/Port 80 LED 1 x Clear CMOS Switch 1 x Reset Switch 1 x M.2 LED Rear : 1 x Power Button w/LED 1 x Location Button w/LED
Dimensions	800mm x 440mm x 174.5 mm
Form Factor	4U
Weight	Net Weight: 27 Kg. Gross Weight: 52 Kg.
Power Supply	2+2 Redundant 2600W/3000W 80 PLUS Titanium Power Supply 2+1 Redundant 3000W 80 PLUS Titanium Power Supply Rating: 220-240 Vac, 15.5A(x4), 50-60 Hz
Environment	Operation temperature: 10°C ~ 35°C Non operation temperature: -40°C ~ 70°C Non operation humidity: 20% ~ 90% (Non condensing)
Recommended support	24x7 - 4 hours Response, Next Business Day Call to Resolution CTR 24x7 - 4 hours Response, 24 Hours Call to Resolution CTR 24x7 - 4 Hours Response, 6 Hours Call to Resolution CTR Default support Next Business Day Consulting and deployment offerings are also available. Contact Vantageo representative for the more information.

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