

Vantage 24G1

GPU

Flexible, Scalable, and Secure



This high-density AI and GPU server is engineered to deliver exceptional performance for artificial intelligence, machine learning, deep learning, and high-performance computing workloads. Powered by dual AMD EPYC™ 9005/9004 Series processors and supporting up to eight dual-slot PCIe Gen5 GPUs, including NVIDIA H200 NVL PCIe and NVIDIA RTX PRO™ 6000 Blackwell Server Edition GPUs, it provides outstanding computational power for training and inference tasks. With 48 DDR5 RDIMM slots across 12 memory channels, 12 hot-swappable Gen5 NVMe/SATA/SAS-4 drive bays, and extensive PCIe Gen5 expansion capabilities, the platform offers unmatched scalability, flexibility, and storage performance. Dual 1GbE networking and quad 3000W 80 PLUS Titanium redundant power supplies ensure reliable, enterprise-grade operation for the most demanding data center environments.

Key Features

- Supports up to 8 x Dual slot Gen5 GPUs
- **Conditionally** supports
 - 8 x NVIDIA H200 NVL PCIe GPUs with 4-way NVLink bridges
 - 8 x NVIDIA RTX PRO 6000 Blackwell Server Edition GPUs
- Dual AMD EPYC 9005/9004 Series Processors
- 12-Channel DDR5 RDIMM, 48 x DIMMs
- 2 x 1 Gb/s LAN ports via Intel I350-AM2
- 12 x 2.5" Gen5 NVMe/SATA/SAS-4 hot-swap bays
- 2 x M.2 PCIe Gen3 x4
- 8 x FHFL PCIe Gen5 x16 for GPUs
- 2 x FHFL PCIe Gen5 x16
- 1 x FHFL PCIe Gen5 x16 on the front side
- 3 x LP PCIe Gen5 x16
- Quad 3000 W 80 PLUS Titanium redundant power supply

Technical details

Vantageo 24G1 Details

Form Factor	4U (W448 x H176 x D880 mm)
CPU	AMD EPYC 9005 Series Processors AMD EPYC 9004 Series Processors Dual processor, cTDP up to 400 W - At 30°C ambient, cTDP up to 500 W
Socket	2 x LGA 6096 (Socket SP5)
Chipset	System on Chip
Memory	12-Channel DDR5 RDIMM, 48 x DIMMs [EPYC 9005] Up to 5200 MT/s (1DPC) Up to 4400 MT/s (1R 2DPC), 4000 MT/s (2R 2DPC) [EPYC 9004] Up to 4800 MT/s (1DPC), 3600 MT/s (2DPC)
LAN	2 x 1 Gb/s LAN (1 x Intel I350-AM2), Support NCSI 1 x 10/100/1000 Mb/s Management LAN, WEB based HTTPs Support
Video	Integrated in ASPEED AST2600 - 1 x VGA port
Storage	Front hot-swap: 12 x 2.5" Gen5 NVMe/SATA/SAS-4 Internal M.2: 2 x M.2 (2280/22110), PCIe Gen3 x4
Raid Controller	Broadcom 93XX / 94XX / 95XX / 96XX / PCIe SAS Raid Card 12Gbps 1GB/2GB/4GB/ 8GB cache, support Raid, 0, 1, 5, 6, 10, 50 ,60 with battery backup Broadcom 93XX / 94XX / 95XX / 96XX / PCIe SAS Raid Card 12Gbps 8GB cache, External 12G SAS Port support Raid, 0, 1, 5, 6, 10, 50 ,60 with battery backup(Supports NVMe) Raid controller cooling with heat sink
PCIe Expansion Slots	Rear: 8 x FHFL PCIe Gen5 x16, for GPUs 2 x FHHL PCIe Gen5 x16 3 x LP PCIe Gen5 x16 Front: 1 x FHHL PCIe Gen5 x16
I/O Ports	Front: 2 x USB 3.2 Gen1, 1 x VGA, 2 x RJ45, 1 x MLAN
TPM	1 x TPM header (SPI), Optional TPM 2.0 kit: CTM010
Power Supply	Quad 3000 W 80 PLUS Titanium redundant power supply AC Input: 100-240 V
System Fans	2 x 40x40x28mm 12 x 60x60x56mm
Operating Properties	Operating: 10°C to 35°C, 8% to 80% (non-condensing) Non-operating: -40°C to 60°C, 20% to 95% (non-condensing)

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Server Management	AST2600 with dual BMC supports IPMI and Redfish (1) 1000Base-T Dedicated Server Management Port Dual BIOS22, (1) MicroSD card slot for BMC log RESTful API to discover and deploy servers Web Management interface Monitoring of critical components like Fan, Power ,CPU , HDD, Raid Telemetry details Support sending alarm notification securely to OEM / Personal for troubleshooting <u>Vantageo</u> Manage Grid
Security	TPM 2.0(Trusted Platform Module), Authenticated BIOS, Secure Boot, Silicon Root of Trust, Disk Encryption, Hardware Root of Trust Sign firmware updates and BIOS code / Scan for malicious firmware Malicious code free design Secured Configuration Upgrade Secured Default Passwords Secure Erase Advanced Encryption Standard (AES) Rapid OS Recovery Secure Recovery Infrastructure lifecycle management-Checks Hardware security identifies configuration drift indicative of a breach.
BIOS	UEFI compliant BIOS Flash EPROM update by software BIOS settings save and restore Local BIOS update from USB device Secure boot support
Remote Management	Remote management supports hardware components, Power on/off and boot process. Supports Management log , Audit Logs and dedicated Management roles bases on users Ports can be integrate with industry wide KVM solution. Remote KVM Support for Virtual Media Redirection Monitoring fan, power supply, memory, CPU, RAID, NIC for failures. Remote management supports telemetry streaming and Idle Server Detection. Supports Role Based Security through LDAP or Local and able to provide pre-failure alarms for CPU, Memory and HDD by SMTP. Out of band management
Certified or supported operating system & virtualization Software	Compatible with mainstream server operating systems: Microsoft Windows Sever - 2025 Datacenter Microsoft Windows Sever - 2025 Standard Microsoft Windows Sever - 2022 Datacenter Microsoft Windows Sever - 2022 Standard Microsoft Windows Sever - 2019 Datacenter Microsoft Windows Sever - 2019 Standard Microsoft-Hyper V

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	Red Hat Enterprise Linux 9.0 - 9.x
	Red Hat Enterprise Linux 8.6 - 8.x
	Red Hat Enterprise Linux 8.4 LTS, 8.5 and Late
	Red Hat Open stack 17.0 - 17.X
	Red Hat Openshift Virtualization
	Red Hat Openshift Kubernetes
	Open Source Linux KVM
	SUSE Linux Enterprise Server 15 SP3 and Later
	SUSE Linux Enterprise Server 15.5 Virtualization (KVM and XEM)
	Ubuntu Server 21.10 & 22.04 LTS and Later
	VMWare vSphere 9.0
	VMWare vSphere 8.0
	VMWare vSphere 7.0
	VM Essential
	Docker.

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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