

Vantageo 2240-RM Server

Flexible, Scalable, and Secure



The Vantageo 2240-RM is a powerful 2U rackmount server featuring dual Intel 4th/5th Gen Xeon Scalable processors, DDR5 memory, PCIe Gen4 expansion, and advanced system management. Designed for cloud computing, telecom edge, AI inference, and mission-critical workloads, it offers flexibility, scalability, and enterprise reliability.

Applications

- Cloud Computing Services
- Content Delivery Networks
- Network Function Virtualization
- 5G Core and Edge Telecom Micro Data Centers
- AI Inference and Machine Learning

Key Features

- Dual Intel Xeon Scalable (4th/5th Gen) processors, up to 350W
- 32 DDR5 DIMM slots, up to 5600 MT/s (5th Gen), max 256GB per DIMM (3DS)
- 12x 3.5"/2.5" hot-swap drive bays supporting SATA, SAS, and PCIe 4.0 NVMe
- 7x PCIe 4.0 slots (3x x16 FH GPU, 4x x16/x8), plus 1x OCP3.0 slot

- Support for up to 3 double-width GPUs (450W each)
- Redundant 2000W CRPS Platinum PSU and hot-swap fans
- Advanced server management with ASPEED AST2600, IPMI 2.0 & Redfish
- Enterprise security with TPM 2.0, dual BIOS and BMC

Technical details

Vantageo 2240-RM Details

Form Factor	2U Rack Server
Dimensions	438mm(17.2") W x 87mm(3.4") H x 770mm(30.3")D
Processor	Dual 4th/5th Gen Intel® Xeon® Scalable processors, TDP up to 350W
Chipset	Intel® C741 Chipset
Networking	No onboard LAN (2) 1000GBase-T Ethernet Ports w/ optional M.2 LAN module NAD-101
RAID	· Intel® SATA RAID 0/1/10/5 · 1 x VROC header (for Intel® VROC key)
Memory	· 32 x DDR5 DIMM slots, 16 channels (2DPC), RDIMM/ 3DS-RDIMM - Max Frequency: 5th Gen Intel® Xeon®: 5600 MT/s (1DPC), 4400 MT/s (2DPC) 4th Gen Intel® Xeon®: 4800 MT/s (1DPC), 4400 MT/s (2DPC) - Max Capacity per DIMM: RDIMM: 96GB 3DS-RDIMM: 256GB
Raid Controller	PCIe SAS Raid Card 12Gbps 2Gb caches, support Raid, 0, 1, 5, 6, 10, 50 ,60 with battery backup PCIe SAS Raid Card 12Gbps 4Gb caches, support Raid, 0, 1, 5, 6, 10, 50 ,60 with battery backup PCIe SAS Raid Card 12Gbps 8Gb caches, support Raid, 0, 1, 5, 6, 10, 50 ,60 with battery backup (Supports NVMe) Raid controller cooling with heat sink
Raid Manager	RAID Manager (command-line interface) BIOS Configuration Utility
Key RAID Data Protection Feature	Online Capacity Expansion Online RAID level Migration Fast initialization for quick array setup Check consistency for background data integrity S.M.A.R.T support Global and dedicated Hot Spare with Revertible Hot Spare support Automatic rebuild Health Monitoring tool, Error indication alerts Multi Raid array Support
System management	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 Vantageo Server Suite
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 core / Scan for malicious firmware Malicious core free design Secured Configuration Upgrade Secured Default Passwords Secure Erase Advanced Encryption Standard (AES) Rapid OS Recovery

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. 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.
Operating buttons	On/off switch ID button Reset button
Status LEDs	Power ON Customer self service Light path diagnostic led Hard disks access
Drive Bays	· 12 x 2.5"/ 3.5" hybrid hot-swap drive bays - Supports SATA 3.0/ SAS*/ U.2 PCIe 4.0 NVMe signals * The SAS card is required for SAS device support.
Internal Storage	2 x M.2 M-key (PCIe 3.0 x2, 2280/ 22110, from PCH)
Expansion Slots	- RISER1: » 1 x PCIe 4.0 x16 slot (PCIe 4.0 x16 signal, from CPU0, supporting FHFL GPU card) » 2 x PCIe 4.0 x16 slots (PCIe 4.0 x8 signal, from CPU0, supporting FH PCIe card) - RISER2: » 1 x PCIe 4.0 x16 slot (PCIe 4.0 x16 signal, from CPU1, supporting FHFL GPU card) » 2 x PCIe 4.0 x16 slots (PCIe 4.0 x8 signal, from CPU1, supporting FH PCIe card) - RISER3: » 1 x PCIe 4.0 x16 slot (PCIe 4.0 x16 signal, from CPU1, supporting FHFL GPU card) OCP 3.0 · 1 x OCP 3.0 Mezzanine card slot (PCIe 4.0 x16 signal, from CPU0) - Supports NCSI
Front I/O	· 2 x USB 2.0 Type-A ports · 1 x VGA port · 1 x System power LED button · 1 x UID LED button · 1 x Reset button · 4 x Status LEDs (M.2/ Alarm/ 2 x LANs) · 12 x Hot-swap 3.5"/2.5" drive bays
Rear I/O	· 1 x GbE RJ45 Port (mgmt.) · 2 x USB 2.0 Type-A ports · 1 x COM RJ45 port · 1 x VGA port · 1 x UID LED button*

Server Management	· 1 x GbE RJ45 Port (mgmt.) (Realtek® RTL8211FD-CG) · 1 x MicroSD card slot (for BMC Log) · ASPEED AST2600 with AMI MegaRAC based firmware – Supports IPMI 2.0 and DMTF Redfish® API · Dual BIOS and BMC supported
Supported operating system & virtualization Software	Compatible with mainstream server operating systems: Microsoft Windows Sever – 2025 Microsoft Windows Sever – 2022 Microsoft Windows Sever – 2019 Microsoft-Hyper V Red Hat Enterprise Linux 10.0 – 10.x Red Hat Enterprise Linux 9.0 – 9.x Red Hat Enterprise Linux 8.6 – 8.x Redhat Open Shift Container Platform 4.x Redhat Virtualization 4.x Red Hat Openshift Virtualization Red Hat Openshift Kubernetes Open Source Linux KVM SUSE Linux Enterprise Server 15 for AMD64 & Intel64 (with XEN / KVM) Ubuntu Server 24.04 & 22.04 LTS VMWare vSphere 8.0 VMWare vSphere 7.0
Cooling	· 2 x EVAC air cooling modules (for max 350W CPU) · 6 x 6038 hot-swap system fans · 1 x Air duct (supports FL GPU cards)
Environment	· Operating Temperature: 0°C ~ 35°C · Non-operating Temperature: -20°C ~ 70°C · Non-operating Relative Humidity: 5% ~ 85% (non-condensing)
Power Supply	(1+1) 2000W CRPS, 80 PLUS® Platinum

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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