

Vantageo 1240-RE

Flexible, Scalable, and Secure



The Vantageo 1240-RE is a new-generation of 1U 2-socket general rack server supporting two Intel® Xeon® 4 th/5 th generation scalable processors (Eagle Stream). With a high-density, modular, and streamline design, the Vantageo 1240-RE features high performance, high reliability, easy expansion, and easy management, which is widely applicable to the Internet, cloud computing, big data, and virtualization fields

HIGH DENSITY, HIGH PERFORMANCE

- Supports two Intel 4 th/5 th Generation Intel® Xeon® Scalable Processors (Eagle Stream) with a single processor of up to 64 cores.
- Provides dual CPUs for high-speed interconnection, and up to three UPIs for fast channel interconnection. The transmission rate can reach 20GT/s.
- Provides 32 DDR5 memory slots, with a maximum rate of 5,600MT/s
- Provides high-speed I/O performance, and supports high-performance NVMe SSDs.

HIGH SCALABILITY, HIGH BANDWIDTH

- Provides a maximum of twelve 2.5" disks to meet the requirements for large-capacity storage.
- Supports a maximum of twelve NVMe SSDs, provides high-speed I/O interfaces, and solves the bottleneck of slow hard disk access in traditional solutions.
- Provides powerful expansion capability, and supports up to six PCIe 5.0 expansion slots
- Supports two OCP3.0 standard NICs (x16+x8).
- Provides the powerful computing capability and supports two high-performance GPUs.

HIGH AVAILABILITY, HIGH RELIABILITY

- Provides a good heat dissipation design to improves system reliability and effectively extend the life of components and reduces costs.
- The hard disks, power supplies, and fans support hot swapping, improving the availability of the system.

HIGH AVAILABILITY, HIGH RELIABILITY

- Supports RAID 0,1,5,6,10,50,60 and power-off protection, and provides multiple data protection solutions for users.
- Power modules support 1+1 redundancy, and fans support N+1 redundancy, improving system reliability.
- Supports TPM/TCM

CONVENIENT MANAGEMENT, EASY MAINTENANCE

- Vantageo Server Suite Provides the Intelligent management platform, implementing out-of-band monitoring of resources such as CPUs, memories, hard disks, fans, power supplies, and networks.
- Provides powerful KVM functions.

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Supports standard interfaces such as IPMI, SNMP, and Redfish, so that the device can be integrated with third-party management systems.

Supports automatic deployment, firmware upgrade, and remote operations to improve deployment and O&M efficiency.

Vantageo 1240-RE		
Features	Technical Specification	
Form Factor	1U rack server	
Adaptable cabinet	19 inches ≥1,000mm-deep cabinet	
Chipset	Intel C741	
Processor	Supports 1/2 Intel®Xeon ® 4 th/5 th -generation scalable processors (Eagle Stream)	
Memory slot	Supports 32 DDR5 memory slots with a maximum rate of 5,600MT/s	
Memory Protection	Advanced ECC	
Memory DIMMS Supports	16GB DDR5-5600/4800 128GB DDR5-5600/4800 32GB DDR5-5600/4800 256GB DDR5-5600/4800 64GB DDR5-5600/4800	
Hard disk controller	Supports RAID 0/1/5/6/10/50/60 and power-off protection	
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 Multi Raid array Support
Hard disk	Front storage hard disks: <ul style="list-style-type: none"> 10x2.5 "slot, SAS/SATA is supported, NVMe SSD is optional, and hot swapping is supported. Rear storage hard disks: <ul style="list-style-type: none"> 2x2.5"slots, supports SAS/SATA is supported, NVMe SSD is optional, and hot swapping (optional) 	
Display	Integrated display controller ,supporting the optional configuration of PCIe standard display cards	
System management	Web Management interface Monitoring of critical components like Fan, Power ,CPU , HDD, Raid Telemetry details Supports sending alarm notification securely to OEM / Personal for troubleshooting Vantageo Server Suite Provides Comprehensive	
PCIe slot	Supports up to 6 PCIe slots: Supports maximum of three PCIe standard slots Two dedicated OCP slots One built-in dedicated RAID card slot	
Onboard Ports	OCP NIC 3.0x2	
External device interface	Five USB interfaces (two rear USB3.0 interfaces, one front USB3.0 interface, one internal USB3.0 interface, one for front USB2.0 interface) Two VGA interfaces (one front end and one back end) One serial port	
Power	Supports 1+1 hot/swappable redundant power supply (Optional) 550W/800W/1200W/1600W/2000W high-efficiency platinum power supply (Optional) 800W/1300W/1600W/2000W high-efficiency titanium power supply Supports 110V/220 V AC, 240V/336 V high-voltage DC, and-48V DC	

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Features	Technical Specification
Security	TPM (Trusted Platform Module), Authenticated BIOS
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 Global error LED Hard disks access
Environment conditions	Operating temperature: +5°C to +45°C (The operating temperature depends on different configurations. For details, see the technical documentation.) Storage temperature: -40°C to +65°C Operating humidity: 8% to 90% RH, no condensation Transport storage humidity: 5% to 95% RH, no condensation Altitude: <3,000m. When the altitude is 900m higher, the operating temperature will decrease by 1 °C for every 300m increase in altitude. Mechanical disks cannot be configured for devices larger than 3,000m
System size	432mm x 43mm x 780mm (W x H x D), excluding flanges and guide rails Standard 19-inch. rack (>=1 m deep)
Fan	Eight high-efficiency fans, N+1 redundancy, and intelligent heat-dissipation system
Weight	27kg in full configuration (excluding guide rails)
Supported Components CPU	CPU-Intel-Xeon Gold-5415+ -8core-2.9GHz-150W-HeatSink CPU-Intel-Xeon Gold-5416S-16core-2.0GHz-150W-HeatSink CPU-Intel-Xeon Gold-5418N-24core-1.8GHz-165W-HeatSink CPU-Intel-Xeon Gold-5418Y-24core-2.0GHz-185W-HeatSink CPU-Intel-Xeon Gold-5420+ -28core-2.0GHz-205W-HeatSink CPU-Intel-Xeon Gold-5515+ -8core-3.2GHz-165W-HeatSink CPU-Intel-Xeon Gold-5520+ -28core-2.2GHz-205W-HeatSink CPU-Intel-Xeon Gold-6426Y-16core-2.5GHz-185W-HeatSink CPU-Intel-Xeon Gold-6428N-32core-1.8GHz-185W-HeatSink CPU-Intel-Xeon Gold-6430-32core-2.1GHz-270W-HeatSink CPU-Intel-Xeon Gold-6434-8core-3.7GHz-195W-HeatSink CPU-Intel-Xeon Gold-6438N-32core-2.0GHz-205W-HeatSink CPU-Intel-Xeon Gold-6438Y+ -32core-2.0GHz-205W-HeatSink

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Features	Technical Specification
	CPU-Intel-Xeon Gold-6442Y-24core-2.6GHz-225W-HeatSink CPU-Intel-Xeon Gold-6444Y-16core-3.6GHz-270W-HeatSink CPU-Intel-Xeon Gold-6526Y-16core-2.8GHz-195W-HeatSink CPU-Intel-Xeon Gold-6530-32core-2.1GHz-270W-HeatSink CPU-Intel-Xeon Gold-6534-8core-3.9GHz-195W-HeatSink CPU-Intel-Xeon Gold-6538N-32core-2.1GHz-205W-HeatSink CPU-Intel-Xeon Gold-6538Y+ -32core-2.2GHz-225W-HeatSink CPU-Intel-Xeon Gold-6542Y-24core-2.9GHz-250W-HeatSink
	CPU-Intel-Xeon Gold-6544Y-16core-3.6GHz-270W-HeatSink CPU-Intel-Xeon Gold-6548N-32core-2.8GHz-250W-HeatSink CPU-Intel-Xeon Gold-6548Y+ -32core-2.5GHz-250W-HeatSink CPU-Intel-Xeon Gold-6554S-36core-2.2GHz-270W-HeatSink CPU-Intel-Xeon Platinum-8444H-16Core-2.9GHz-270W-HeatSink CPU-Intel-Xeon Platinum-8468V-48core-2.4GHz-330W-HeatSink CPU-Intel-Xeon Platinum-8558-48core-2.1GHz-330W-HeatSink CPU-Intel-Xeon Platinum-8558P-48core-2.7GHz-350W-HeatSink CPU-Intel-Xeon Platinum-8562Y+ -32core-2.8GHz-300W-HeatSink CPU-Intel-Xeon Platinum-8568Y+ -48core-2.3GHz-350W-HeatSink CPU-Intel-Xeon Platinum-8570-56core-2.1GHz-350W-HeatSink CPU-Intel-Xeon Platinum-8580-60core-2.0GHz-350W-HeatSink CPU-Intel-Xeon Platinum-8592+ -64core-1.9GHz-350W-HeatSink CPU-Intel-Xeon Silver-4410T-10core-2.7GHz-150W-HeatSink CPU-Intel-Xeon Platinum-8592V-64core-2.0GHz-330W-HeatSink CPU-Intel-Xeon Silver-4410Y-12core-2.0GHz-150W-HeatSink CPU-Intel-Xeon Silver-4416+ -20core-2.0GHz-165W-HeatSink CPU-Intel-Xeon Silver-4509Y-8core-2.6GHz-125W-HeatSink CPU-Intel-Xeon Silver-4510-12core-2.4GHz-150W-HeatSink CPU-Intel-Xeon Silver-4510T-12core-2.0GHz-115W-HeatSink CPU-Intel-Xeon Silver-4514Y-16core-2.0GHz-150W-with heat sink CPU-Intel-Xeon Silver-4516Y+ -24core-2.2GHz-185W-HeatSink
SAS HDD	HDD-1.2TB-SAS-2.5"-10K-12Gb/s-TOSHIBA-2.5-inch hard disk box HDD-600GB-SAS-2.5"-10K-12Gb/s-2.5-inch hard disk box
SSD SATA	SSD-1.92TB-SATA-2.5"-6Gb/s-Intensive read type-Samsung PM893-2.5-inch hard disk box SSD-480GB-SATA-2.5"-6Gb/s-Intensive read type-Samsung PM893-2.5-inch hard disk box SSD-960GB-SATA-2.5"-6Gb/s-Intensive read type-Samsung PM893-2.5-inch hard disk box SSD-3.84TB-SATA-2.5"-6Gb/s-Read-write hybrid-Samsung PM897-2.5-inch hard disk box SSD-960GB-SATA-2.5"-6Gb/s-Read-write hybrid-Intel S4620-2.5-inch hard disk box SSD-960GB-SATA-2.5"-6Gb/s-Read-write hybrid-Intel S4620-3.5-inch hard disk box SSD-7.68TB-SATA-2.5"-6Gb/s-Intensive read type-Intel S4520-2.5-inch hard disk box SSD-3.84TB-SATA-2.5"-6Gb/s-Intensive read type-Intel S4520-2.5-inch hard disk box SSD-240GB-SATA-M.2-2280-6Gb/s-Intensive read type-Intel S4510
NVME SSD	SSD-1.92TB-NVMe PCIe-2.5"-PCIe 4.0*4-Intensive read type-Samsung PM9A3-2.5-inch hard disk box SSD-960GB-NVMe PCIe-2.5"-PCIe 4.0*4-Intensive read type-Samsung PM9A3-2.5-inch hard disk box

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Fibre Channel Card	PCle FC HBA-LPE31002-2x16G SFP+ -PCle3.0x8-with optical module
NIC card	PCIE NIC-I350-Intel-4x1G-RJ45-PCle3.0x8PCIE NIC-X710-Intel-2x10G-RJ45-PCle3.0x8 PCle NIC-NS312-Mellanox CX4-2x10G SFP28-PCle3.0x8-no optical module PCle NIC-NS312-Mellanox CX4-2x25G SFP28-PCle3.0x8-no optical module PCIE NIC-MCX623106AN-CDAT-Mellanox CX6-2x100G QSFP56-PCle4.0x16-no optical module PCIE NIC-MCX512A-ACUT-Mellanox CX5-2x25G SFP28-PCle3.0x8-no optical module
Riad Card	PCIE RAID card-LSI9460-8i-SAS3508-2GB Cache-RAID0,1,10,5,6,50,60-12Gb/s-no cache protection module PCIE RAID card-SAS9560-8i-4GB Cache-RAID0,1,10,5,6,50,60-12Gb/s-no cache protection module PCIE RAID card-SAS9560-16i-8GB Cache-RAID0,1,10,5,6,50,60-12Gb/s-no cache protection module PCIE SAS HBA card-LSI9440-8i-SAS3408-no Cache-RAID0,1,10,5-12Gb/s Mezz SAS HBA CARD-RM243B-18i-PM8238-no Cache-RAID0,1,10,5-12Gb/s PCIE SAS HBA-RS243-18i-PM8238-no Cache-RAID0,1,10,5-12Gb/s PCIE SAS RAID Card-RS241_V3-18i-PM8236-2G Cache-RAID0,1,5,6,10,50,60-12Gb/s PCIE SAS RAID Card-RS242_V3-18i-PM8236-4G Cache-RAID0,1,5,6,10,50,60-12Gb/s
Certified or supported operating system & virtualization Software	Compatible with mainstream server operating systems: Microsoft Windows Sever - 2022 Datacenter Microsoft Windows Sever - 2019 Datacenter Microsoft Windows Sever - 2022 Standard Microsoft Windows Sever - 2019 Standard Microsoft-Hyper V 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 Later Red Hat Open Stack 17.0 - 17.X SUSE Linux Enterprise Server 15 SP3 and Later Ubuntu Server 21.04 & 22.04 LTS VMWare vSphere 8.0