

# Vantageo 2230-RG

Flexible, Scalable, and Secure



## Unleash Unmatched Performance with the Dual 3rd Generation Intel® Xeon® Scalable Processor Server

### Overview

The Vantageo 2230-RG is a powerful and versatile rack server, multipurpose-built to deliver exceptional performance for challenging and emerging workloads. Its powered by dual 3rd Generation Intel® Xeon® Scalable processors, with up to 40 cores each, make it an ideal platform for accelerating application performance using accelerator cards and storage scalability. The server supports upto 16DDR4 ECC DIMM slots with a maximum capacity of 4TB. It also features embedded management capabilities that allow for easy hardware monitoring, boot from USB device, console redirection, and more. With its 2U form factor, the Vantageo 2230-RG strikes an optimal balance between resources, providing the ideal solution for the most demanding environments. Additionally, the server comes equipped with storage controllers and I/O ports making it a versatile solution for variety workloads.

- This means that the chassis can accommodate a variety of storage configurations, depending on the specific needs of the user. This provides plenty of storage options for businesses of all sizes.
- The server features a sleek bezel that enhances the appearance of the server while providing additional protection against dust and other contaminants.
- The server is designed to operate in a variety of environments. It has a recommended operating temperature range of 10°C to 35°C (50°F to 95°F) and a non-operating temperature range of -40°C to 70°C (-40°F to 158°F). It also has non-operating humidity of up to 90%, non-condensation at 35°C

### Features

#### Scaling Innovation with Challenging and Emerging Workloads :-

The Vantageo 2230-RG chassis supports up to 24 or 16 of 2.5-inch SAS/SATA (HDD/SSD) drive bays up to 12/8 NVMe SSD drive bays or up to 12 or 8 of 3.5-inch SAS/SATA (HDD/SSD) drive bays.

### Vantageo 2230-RG

- High bandwidth dual socket option optimized for virtualized environments
- 2 Slots PCI-E Gen 4x8 / 3 Slots PCI-E Gen4x16

**Autonomous Collaboration For Enhancing Efficiency and Accelerating Operations:-**

The Vantageo 2230-RG server features embedded management that allows for autonomous collaboration, enhancing efficiency, and accelerating operations. The server also supports FAN PWM duty cycle/SMBIOS 3.0/PnP/Wake on LAN/ACPI 6.1/ACPI sleeping states S4, S5, providing advanced power management capabilities.

- The hardware monitor/ boot from USB device/ PXE via LAN/ storage/ console redirection/ user configurable features provide greater flexibility in managing and controlling the server.
- The server's FAN PWM duty cycle regulates the fan speed, minimizing power consumption and noise levels.
- The SMBIOS 3.0 and PnP features ensure plug-and-play compatibility with a wide range of operating systems and hardware components.
- The Wake on LAN feature enables remote power management, while the ACPI 6.1 and ACPI sleeping states S4 and S5 provide advanced power-saving options when the server is not in use.
- The IPMI 2.0 compliant baseboard management controller (BMC) and 10 or 100 or 1000 Mb/s MAC interface further enhance remote management capabilities

**Proactive Resilience By Safeguarding Data Assets and Infrastructure:-**

The Vantageo 2230-RG is designed to protect your data assets and infrastructure with proactive resilience. The device comes equipped with several storage controllers, including three Mini SAS HD ports and SATA III support from the Platform Controller Hub (PCH). There are also two USB 3.0 ports located at the rear of the device.

- In terms of expansion slots, there are two PCI-E Gen 4x8 slots or three PCI-E Gen4x16 slots available. Additionally, there is an NVMe connector (M.2) that supports two 2210/2280 drives via the PCI-E interface.

- Other notable features include a D Sub 15 pin VGA port located at the rear of the device for video output, two GbE ports, and one dedicated GbE port for IPMI (Intelligent Platform Management Interface). The device also has a 2x12 pin SSI front panel header that can be used for I/O and ports.
- The server is designed to provide maximum security for your data assets and infrastructure. It features Secure Boot, TPM 1.2/2.0 optional, and cryptographically signed firmware.
- The server is compatible with a variety of operating systems, including Red Hat® Enterprise Linux, SUSE® Linux Enterprise Server, Ubuntu® Server LTS, Microsoft Windows Server®, and VMware® ESXi.



Vantageo 2230-RG			
Features	Technical Specification		
Processor	3rd Gen Intel® Xeon® Scalable Processors Intel® Xeon® Platinum Processor, Intel® Xeon® Gold Processor, Intel® Xeon® Silver Processor 10nm technology, CPU TDP up to 270W		
Socket	2 x LGA 4189 (Socket P+)		
Chip Set	Intel® C621A Express Chipset		
Memory	8-Channel DDR4 memory per processor, 16 x DIMM slots RDIMM modules up to 128GB supported LRDIMM modules up to 128GB supported 3DS RDIMM/LRDIMM modules up to 256GB supported 1.2V modules: 3200/2933/2666 MHz		
Video	Integrated in Aspeed® AST2600 2D Video Graphic Adapter with PCIe bus interface 1920x1200@60Hz 32bpp, DDR4 SDRAM		
Raid controller Options	Onboard Raid Support – Intel RSTe Supports Raid 0/1/10/5		Supported Cache Protection
	PCIe Gen4/Gen3	Supported Cache – 2GB/4GB/8GB	Supported Raid Level – 0/1/5/6/10/50/60
	SAS 3.0 ( 12Gbs)	Supported Cache – 2GB/4GB/8GB	Supported Media – SAS/SATA/NVMe
Expansion Slots	6 x PCIe x16 (Gen4 x16) slots 2 x M.2 slot: - M-key - PCIe Gen4 x4 per slot - Supports NGFF-22110/2280 cards		
Rear I/O	2 x USB 3.0, 1 x VGA, 1 x COM (RJ45 type), 2 x RJ45, 1 x MLAN, 1 x ID button with LED		
Internal I/O	1 x 24-pin ATX main power connector, 2 x 8-pin ATX 12V power connectors, 1 x 6-pin PCIe power connectors, 3 x SlimSAS connectors, 2 x 7-pin SATA connectors, 2 x M.2 slots, 1 x HDD back plane board header, 2 x CPU fan headers, 5 x System fan headers, 1 x USB 3.0 header, 1 x TPM header, 1 x VROC connector, 1 x Front panel header, 1 x PMBus connector, 1 x IPMB connector, 1 x Clear CMOS jumper, 1 x BIOS recovery jumper, 1 x Case open header		
Drive bays	Front drive bays: Up to 24 x 2.5" SAS/SATA (HDD/SSD) up to 12/8 NVMe SSD Front drive bays: Up to 16 x 2.5" SAS/SATA (HDD/SSD) up to 12/8 NVMe SSD Front drive bays: Up to 12 x 3.5" SAS/SATA (HDD/SSD) Front drive bays: Up to 8 x 3.5" SAS/SATA (HDD/SSD) Rear 2 * 2.5" SAS/SATA( HDD/SSD)		
Power supplies	Redundant CRPS 1+1, 800/1200/1600W(TITANIUM)		High Performance PWM Fan(s)
Dimensions	Form factor: Rack (2U)		Height: 90mm Width: 490mm Length: 723mm WeightMax. 32 kg *Dimensions do not include bezel
Embedded management	Aspeed® AST2600 management controller Management Console (AMI MegaRAC SP-X)		
Security	1 x TPM header with SPI interface Optional TPM2.0 kit: CTM010		

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Vantageo 2230-RG			
Features		Technical Specification	
Supported operating systems	Microsoft Windows Server®		For specifications and interoperability details, operability details, see <a href="https://Vantageo.com/OSsupport">Vantageo.com/OSsupport</a>
	VMware® ESXi		
	Red Hat® Enterprise Linux		
	SUSE® Linux Enterprise Server		
	Ubuntu® Server LTS		
operating Environment	Operating Temp.	10° C~35° C (50° F~95° F)	In/Non Operating Humidity
	Non Operating Temp.	-40° C~ 70° C (-40° F ~ 158° F)	90%, non-condensation 35° C)
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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