

Vantage 1430-WG Workstation

Flexible, Scalable, and Secure



3rd Gen Intel® Xeon® Scalable Processors – “Ice Lake”

Vantage servers and Intel Xeon Scalable Processors deliver incredible 1P/2P performance from edge to data center with incredible gains in I/O throughput and workload demands that need high performing CPUs with large, yet optimized, memory configurations.

Feature

- Single 3rd Gen Intel® Xeon® Scalable Processors
- Single Intel® Xeon® W-3300 Processors
- 8-Channel RDIMM/LRDIMM DDR4, 8 x DIMMs
- Supports Intel® Optane™ Persistent Memory 200 series
- Intel® C621A Chipset
- 2 x 1Gb/s LAN ports via Intel® I210-AT
- 3 x SlimSAS connectors for 12 x SATA 6Gb/s
- 1 x M.2 slot with PCIe Gen3 x4 interface
- 7 x PCIe Gen4 x16 and x8 expansion slots

Vantageo 1430-WG Details

Enhanced I/O: Support for PCIe 4.0 allows for double the throughput of PCIe 3.0 for fast and large data transfers. Also, 64 lanes per socket with up to 128 lanes in a 2P configuration for fast data transmission from CPU to GPU, accelerator or storage.

CPU Performance Boost: Now up to 40 cores per socket with greatly improved IPC on Intel's 10nm architecture while operating CPUs at 105-270W. Also, an additional UPI lane is added for up to 11.2GT/s for a low latency interconnect between CPUs.

Next Gen Memory: Each processor provides eight memory channels to support 8 or 16 DIMM slots with up to DDR4-3200. There are two sub-clustering modes, Sub NUMA (SNC) and Hemisphere (HEMI), available using balanced memory that results in performance improvements. Additionally, support for Intel Optane PMem 200 series provides two modes for greater memory capacity and data persistence to process large amounts of data faster.

Next Level Security: New instructions and architecture deliver a high level of cryptographic operations for data privacy and protection. Cryptographic accelerators speed up encryption protocols as well as improvements in software guard extensions and memory encryption are added.

AI Acceleration: AI inference and training are enhanced with DL Boost Technology for greater business, operational, and security insights. Applications include HPC, AI, and Media & Graphics.

Multiple Storage Interface

The Intel® Xeon® W-3300 processors are optimized for advanced workstation professionals in a single socket solution. These processors are designed for heavily threaded, I/O intensive workloads across Architecture, Engineering, and Construction (AEC), Media and Entertainment (M&E), and Artificial Intelligence/ Machine Learning (AI & ML).

Optional TPM 2.0 Module

For hardware-based authentication, the passwords, encryption keys, and digital certificates are stored in a TPM module to prevent unwanted users from gaining access to your data. Vantageo TPM modules come in either a Serial Peripheral Interface or Low Pin Count bus.

Technical details

Vantageo 1430-WG Details

Form Factor	ATX 304.8W x 244D mm
CPU	3rd Generation Intel® Xeon® Scalable Processors Intel® Xeon® W-3300 Processors Single processor, 10nm technology TDP up to 270W
Socket	1 x LGA 4189 Socket P+
Chipset	Intel® C621A
Memory	8 x DIMM slots DDR4 memory supported only 8-channel memory architecture RDIMM up to 128GB supported LRDIMM up to 128GB supported 3DS RDIMM/LRDIMM up to 256GB supported Memory speed: 3200/2933/2666 MT/s
LAN	2 x 1Gb/s LAN ports (Intel® I210-AT) Support NCSI function 1 x 10/100/1000 Mbps Management LAN
Video	Integrated in Aspeed® AST2600 2D Video Graphic Adapter with PCIe bus interface 1920x1200@60Hz 32bpp
Audio	N/A
Storage Interface	PCH: - 3 x SlimSAS connectors for 12 x SATA 6Gb/s
RAID	Intel® SATA RAID 0/1/10/5
Expansion Slots	Slot_7: PCIe x16 (Gen4 x16) slot Slot_6: PCIe x16 (Gen4 x16 or x8) slot, shared with Slot_5 Slot_5: PCIe x16 (Gen4 x8) slot Slot_4: PCIe x16 (Gen4 x16 or x8) slot, shared with Slot_3 Slot_3: PCIe x16 (Gen4 x8) slot Slot_2: PCIe x16 (Gen4 x16 or x8) slot, shared with Slot_1 Slot_1: PCIe x16 (Gen4 x8) slot 1 x M.2 slot: - M-key - PCIe Gen3 x4, from PCH - Supports 2280 cards
Internal I/O	1 x 24-pin ATX main power connector 1 x 8-pin ATX 12V power connector 1 x 6-pin ATX 12V power connector for PCIe slots 1 x CPU fan header 6 x System fan headers 1 x USB 3.0 header 1 x M.2 slot 3 x SlimSAS connectors 1 x VROC connector 1 x Front panel header

Technical details

	1 x Backplane board header 1 x PMBus header 1 x IPMB header 1 x TPM header
Dimension (D x W x H)	465.2 x 430.0 x 176.0 (mm) 18.32" x 16.93" x 6.93"
Rear I/O	4 x USB 3.0 1 x VGA 1 x COM 2 x RJ45 1 x MLAN 1 x ID button with LED
TPM	1 x TPM header with SPI interface Optional TPM2.0
OS Compatibility	Windows Server 2016 Windows Server 2019 (x64) Windows Server 2022 (x64) Red Hat Enterprise Linux 7.9 or later Red Hat Enterprise Linux 8.2 or later Red Hat Enterprise Linux 9.0 or later SUSE Linux Enterprise Server 12 SP5 or later SUSE Linux Enterprise Server 15 SP2 or later Ubuntu 20.04 LTS or later Ubuntu 22.04 LTS or later VMware ESXi 6.7 Update3 P03 or later VMware ESXi 7.0 Update2 or later VMware ESXi 8.0 or later Citrix Hypervisor 8.2.0 or later
Board Management	Aspeed® AST2600 management controller Vantageo Management Console (AMI MegaRAC SP-X) web interface • Dashboard • HTML5 KVM • Sensor Monitor (Voltage, RPM, Temperature, CPU Status ...etc.) • Sensor Reading History Data • FRU Information • SEL Log in Linear Storage / Circular Storage Policy • Hardware Inventory • Fan Profile • System Firewall • Power Consumption • Power Control • Advanced power capping • LDAP / AD / RADIUS Support

Technical details

	• Backup & Restore Configuration • Remote BIOS/BMC/CPLD Update • Event Log Filter • User Management • Media Redirection Settings • PAM Order Settings • SSL Settings • SMTP Settings
Drive Bays	External 3.5" : 1 External 5.25" : 3 Internal 3.5" : 4 Slim ODD : 1
Power Supply	500W Redundant Power Supply Unit
PSU Connectors	1 x 24-pin ATX main power connector 1 x 8-pin ATX 12V power connector 1 x 6-pin ATX 12V power connector
Dimension (D*W*H)	580 * 200 * 445 mm
Operating Properties	Operating temperature: 10°C to 40°C Operating humidity: 8-80% (non-condensing) Non-operating temperature: -40°C to 60°C Non-operating humidity: 20%-95% (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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