

Vantageo 15U0-WS

Flexible, Scalable, and Secure



Vantageo 15U0-WS with 16+1+2 power stages, DDR5 slots, five M.2 slots with heatsinks, PCIe 5.0 x16 SafeSlot with Q-Release, WiFi 7, USB 20Gbps rear I/O port, front-panel USB connector with PD 3.0 up to 30W, AI Overclocking, AI Cooling II

Overview

The Vantageo 15U0-WS strikes from the shadows with a flurry of advanced power and features to elevate the latest Intel® processors, graphics cards, storage and wireless networking to the next level. Armed with enhanced DDR5 support, ample cooling, PCIe 5.0 and WiFi 7, this high-performance ninja is ready for the toughest of missions. This platform delivers the power and connectivity that advanced AI PC applications demand.

Features

- Intel® LGA 1700 socket: Ready for Intel® Socket LGA1700 for Intel® Core™ 14th & 13th Gen Processors, Intel® Core™ 12th Gen, Pentium® Gold and Celeron® Processors
- Robust Power Solution: 16+1+2 power solution rated for up to 90A per stage with dual ProCool II power connectors, high-quality alloy chokes, and durable capacitors to support multi-core processors
- Optimized VRM Thermals: Massive heatsinks with integrated I/O cover, high-conductivity thermal pads, and connected with an L-shaped heatpipe
- Ample M.2 Support: One PCIe® 4.0 M.2 slot with a heatsink and backplate, and four PCIe 4.0 M.2 slots with heatsinks
- Abundant Connectivity: USB 20Gbps, 10Gbps and 5Gbps rear I/O ports, front-panel USB connector with PD 3.0 up to 30W, PCIe 5.0 x16 SafeSlot, HDMI® 2.1, and DisplayPort™ 1.4
- High-Performance Networking: On-board WiFi 7 (802.11be) and Intel 2.5 Gb Ethernet with LANGuard
- Intelligent Control: Exclusive AI Overclocking, AI Cooling, AI Networking, and Two-Way AI Noise Cancellation simplifies setup and improves performance

- Immersive Gaming Audio: ALC4080 with Savitech SV3H712 amplifier, along with DTS® Sound Unbound and Sonic Studio
- Unmatched Personalization: Exclusive Sync RGB lighting, including one RGB header and addressable Gen 2 headers
- DIY-friendly Design: Q-Antenna, PCIe Slot Q-Release, M.2 Q-Latch, pre-mounted I/O shield, Q-LED with DRAM Detection, BIOS FlashBack™ button, BIOS FlashBack LED, and Clear CMOS button
- Renowned Software: Bundled with 9 months of Intel® Unison™, a 60-day AIDA64 Extreme trial subscription, and the intuitive UEFI BIOS dashboard with integrated MemTest86

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- Tuning is now faster and smarter than ever before. AI Overclocking profiles the CPU and cooling to predict the optimal configuration and push the system to its limits. Predicted values can be engaged automatically or used as a launching ground for further experimentation.

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Features	Technical Specification
CPU	Intel® Socket LGA1700 for Intel® Core™ 14th & 13th Gen Processors, Intel® Core™ 12th Gen, Pentium® Gold and Celeron® Processors Supports Intel® Turbo Boost Technology 2.0 and Intel® Turbo Boost Max Technology 3.0
Chip Set	Intel® Z790 Chipset
Memory	4 x DIMM slots, Max. 192GB, DDR5 8000+(OC)/7800(OC)/7600(OC)/7400(OC)/7200(OC)/7000(OC)/6800(OC)/6600(OC)/6400(OC)/ 6200(OC)/ 6000(OC)/ 5800(OC)/ 5600/ 5400/ 5200/ 5000/ 4800 Non-ECC, Un-buffered Memory Dual Channel Memory Architecture Supports Intel® Extreme Memory Profile (XMP) OptiMem Enhanced Memory Profile (AEMP) Supports DIMM Flex
Port	1 x DisplayPort** 1 x HDMITM port*** ** Supports max. 8K@60Hz as specified in DisplayPort 1.4. *** Supports 4K@60Hz as specified in HDMI 2.1. **** VGA resolution support depends on processors' or graphic cards' resolution.
Expansion Slots	Intel® CoreTM Processors (14th & 13th & 12th Gen) 1 x PCIe 5.0x16 slot (supports x16 mode) Intel® Z790 Chipset 1 x PCIe 4.0 x16 slot (supports x4 mode) 1x PCIe 3.0 x1 slot
Storage	Total supports 5 x M.2 slots and 4 x SATA 6Gb/s ports* Intel® CoreTM Processors (14th & 13th & 12th Gen) M.2_1 slot (Key M), type 2242/2260/2280/22110 (supports PCIe 4.0 x4 mode) Intel® Z790 Chipset M.2_2 slot (Key M), type 2280 (supports PCIe 4.0 x4 mode) M.2_3 slot (Key M), type 2280 (supports PCIe 4.0 x4 mode) M.2_4 slot (Key M), type 2242/2260/2280/22110 (supports PCIe 4.0 x4 mode) M.2_5 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 & SATA modes) 4x SATA 6Gb/s ports * Intel® Rapid Storage Technology supports PCIe RAID 0/1/5/10, SATA RAID 0/1/5/10.
Ethernet	1 x Intel® 2.5Gb Ethernet
Wireless & Bluetooth	Intel® Wi-Fi 7* 2x2 Wi-Fi 7 (802.11be)** Supports 2.4/5/6GHz frequency band*** Support Wi-Fi 7 160MHz bandwidth, up to 2.4Gbps transfer rate. Bluetooth® v5.4**** * Compatible with Windows 11 or later. ** Wi-Fi 7 MLO(Multi-link Operation) full functions support will be ready in Windows 11 2024 Platform (Windows 11 24H2) or later. *** Wi-Fi 6GHz frequency band and bandwidth regulatory may vary between countries. **** The Bluetooth version may vary, please refer to the Wi-Fi module manufacturer's website for the latest specifications.
USB	Rear USB (Total 14 ports) 1 x USB 20Gbps port (1 x USB Type-C®) 3 x USB 10Gbps ports (2 x Type-A + 1 x USB Type-C®) 4 x USB 5Gbps ports (4 x Type-A) 6x USB 2.0 ports (6 x Type-A) Front USB (Total 7 ports) 1 x USB 20Gbps connector (supports USB Type-C® with up to 30W PD Fast-charge)** 1 x USB 5Gbps header supports 2 additional USB 5G ports 2 x USB 2.0 headers support 4 additional USB 2.0 ports *USB Type-C® power delivery output: max. 5V/3A **USB Type-C® power delivery output: 5V/9V max. 3A, 12V max 2.5A

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Features	Technical Specification
Audio	SupremeFX 5.1 Surround Sound High Definition Audio CODEC ALC4080* - Impedance sense for front and rear headphone outputs - Supports: Jack-detection, Multi-streaming, Front and Rear Panel MIC Jack-retasking - High quality 120 dB SNR stereo playback output and 110 dB SNR recording input - Supports up to 32-Bit/384 kHz playback on front panel Audio Features - SupremeFX Shielding Technology - Savitech SV3H712 AMP - Gold-plated audio jacks - Rear optical S/PDIF out port - Premium audio capacitors - Audio cover **The LINE OUT port on the rear I/O does not support spatial audio. If you wish to use spatial audio, make sure to connect your audio output device to the audio jack on the front panel of your chassis or use an USB interface audio device.
Back Panel I/O Ports	1 x USB 20Gbps port (1 x USB Type-C®) 3 x USB 10Gbps ports (2 x Type-A+1 x USB Type-C®) 4 x USB 5Gbps ports (4 x Type-A) 6 x USB 2.0 ports (6 x Type-A) 1 x DisplayPort 1 x HDMITM port 1 x Wi-Fi Module 1 x Intel® 2.5Gb Ethernet 2 x Gold-plated audio jacks 1 x Optical S/PDIF out port 1 x BIOS FlashBack™ button 1 x Clear CMOS button
Internal I/O Connectors	Fan and Cooling related 1 x 4-pin CPU Fan header 1 x 4-pin CPU OPT Fan header 1 x 4-pin AIO Pump header 5 x 4-pin Chassis Fan headers Power related 1 x 24-pin Main Power connector 2 x 8-pin +12V Power connector Storage related 5 x M.2 slots (Key M) 4 x SATA 6Gb/s ports USB 1 x USB 20Gbps connector (supports USB Type-C® with up to 30W PD) 1 x USB 5Gbps header supports 2 additional USB 5G ports 2 x USB 2.0 headers support 4 additional USB 2.0 ports Miscellaneous 3 x Addressable Gen 2 headers 1 x RGB header 1 x CPU Over Voltage jumper 1 x Front Panel Audio header (F_AUDIO) 1 x Start button 1 x 20-3 pin System Panel header with Chassis intrude function 1 x Thermal Sensor header 1 x Thunderbolt™ (USB4®) header
Operating System	Windows® 11, Windows® 10 64-bit
Dimensions	(L)350mm (W)205mm (H)470mm
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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