

Vantageo15G0-WS

Flexible, Scalable, and Secure



Intel® H610 (LGA 1700) mic-ATX motherboard with DDR4, PCIe 4.0, dual M.2 slots, Realtek 1 Gb Ethernet, DisplayPort, HDMI®, D-Sub, USB 3.2 Gen 1 ports, SATA 6 Gbps, COM header, RGB header

Overview

The Vantageo15G0-WS is a micro-ATX motherboard designed to offer a reliable and efficient platform for Intel 12th and 13th Gen processors. It's part of the vantageo series, known for delivering stable performance and essential features for mainstream users. This motherboard strikes a balance between affordability and functionality, making it ideal for home and office use, as well as for entry-level gaming and content creation.

Features

Processor Support: Compatible with Intel 12th and 13th Gen CPUs, including Core, Pentium Gold, and Celeron processors, offering flexibility for various computing needs.

Memory: Supports up to 64GB of DDR4 RAM across two DIMM slots, ensuring smooth multitasking and efficient performance.

Expansion Capabilities: Includes a PCIe 4.0/3.0 x16 slot for graphics cards and two PCIe 3.0 x1 slots for additional cards, allowing for future upgrades.

Storage Options: Features an M.2 slot and four SATA ports, providing ample storage expansion options with fast data access speeds.

Connectivity: Offers a range of connectivity options, including USB 3.2 Gen 1 and USB 2.0 ports, HDMI 2.1, D-Sub, and Ethernet for high-speed networking.

Audio: Equipped with Realtek ALC897 audio codec, delivering 7.1-channel high-definition audio for an immersive sound experience.

Cooling: Supports AI Cooling and Fan Xpert technology, ensuring optimal temperature control and system stability.

Vantageo15G0-WS

- Realtek ALC897 7.1 Surround Sound High Definition Audio CODEC.
- Supports high-quality audio capacitors and Audio shielding.

Vantageo 15G0-WS	
Features	Technical Specification
CPU	Intel® Socket LGA1700 for 12th Gen Intel® Core™, Pentium® Gold and Celeron® Processors* Supports Intel® Turbo Boost Technology 2.0 and Intel® Turbo Boost Max Technology 3.0**
Chipset	Intel® H610 Chipset
Memory	2 x DIMM, Max. 64GB, DDR4 3200/3000/2933/2800/2666/2400/2133 Non-ECC, Un-buffered Memory* Dual Channel Memory Architecture Supports Intel® Extreme Memory Profile (XMP)
Graphics	1 x DisplayPort** 1 x HDMI® port*** 1 x D-Sub port *Graphics specifications may vary between CPU types. Please refer to www.intel.com for any updates **Supports max. 4K@60Hz as specified in DisplayPo ***Supports 4K@60Hz as specified in HDM
Expansion Slots	Intel® 12th Gen Processors 1 x PCIe 4.0 x16 slot Intel® H610 Chipset 1 x PCIe 3.0 x1 slot
Storage	Total supports 2 x M.2 slots and 4 x SATA 6Gb/s ports Intel® H610 Chipset M.2_1 slot (Key M), type 2242/2260/2280 (supports PCIe 3.0 x4 mode) M.2_2 slot (Key M), type 2242/2260/2280 (supports PCIe 3.0 x2 mode) 4 x SATA 6Gb/s ports
Ethernet	1 x Realtek 1Gb Ethern
USB	Rear USB (Total 4 ports) 2 x USB 3.2 Gen 1 ports (2 x Type-A) 2 x USB 2.0 ports (2 x Type-A) Front USB (Total 6 ports) 1 x USB 3.2 Gen 1 header supports additional 2 USB 3.2 Gen 1 ports 2 x USB 2.0 headers support additional 4 USB 2.0 ports
Audio	Realtek 7.1 Surround Sound High Definition Audio CODEC* - Supports: Jack detection, Multi-streaming, Front Panel Jack-retasking - Supports up to 24-Bit/192 kHz playback Audio Features - Audio Shielding - Premium audio capacitors - Dedicated audio PCB layers * A chassis with an HD audio module in the front panel is required to support 7.1 Surround Sound audio out

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Features	Technical Specification
Back Panel I/O Ports	2 x USB 3.2 Gen 1 ports (2 x Type-A) 2 x USB 2.0 ports (2 x Type-A) 1 x DisplayPort 1 x HDMI® port 1 x D-Sub port 1 x Realtek 1Gb Ethernet port 3 x Audio jacks 1 x PS/2 Keyboard (purple) port 1 x PS/2 Mouse (green) p
Back Panel I/O Ports	Fan and Cooling related 1 x 4-pin CPU Fan header 2 x 4-pin Chassis Fan headers Power related 1 x 24-pin Main Power connector 1 x 8-pin +12V Power connector Storage related 2 x M.2 slots (Key M) 4 x SATA 6Gb/s ports USB 1 x USB 3.2 Gen 1 header supports additional 2 USB 3.2 Gen 1 ports 2 x USB 2.0 headers support additional 4 USB 2.0
Internal I/O Connectors	Fan and Cooling related 1 x 4-pin CPU Fan header 2 x 4-pin Chassis Fan headers Power related 1 x 24-pin Main Power connector 1 x 8-pin +12V Power connector Storage related 2 x M.2 slots (Key M) 4 x SATA 6Gb/s ports USB 1 x USB 3.2 Gen 1 header supports additional 2 USB 3.2 Gen 1 ports 2 x USB 2.0 headers support additional 4 USB 2.0
Operating System	Windows® 11 64-bit, Windows® 10
BIOS	128 Mb Flash ROM, UEFI AMI BI
Manageability	WOL by PME, PX
Form Factor	mATX Form Factor 9.6 inch x 8.3 inch (24.4 cm x 21.1 cm)
Case Form Factor	MID TOWER
Motherboard Support	Mini-ITX MicroATX ATX
Weight	5.5
Radiator Compatibility	120mm
Maximum GPU Length	414mm
Maximum CPU Cooler Height	150mm
Maximum PSU Length	230mm
Corsair Link Enabled	No
Compatible Liquid Coolers	H55, H60, H75, H80i

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Features	Technical Specification
Case Size	Mid-Tower
Case Material	Steel
Case Dimensions	447mm x 200mm x 428mm
Case Power Supply	ATX (not included)
Case Expansion Slots	7
Case Drive Bays	(x2) 5.25in (x4) Combo 3.5in/2.5in
Case Window	Acrylic
Internal 3.5" Drive Bays	4
Internal 2.5" Drive Bays	4
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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