



## Vantageo 15E0-W

Flexible, Scalable, and Secure

**Intel® W790 (LGA 4677) CEB workstation motherboard, PCIe 5.0 ×16, M.2, 10G and 2.5G LAN, Server-grade Remote Management, 12+1+1 power stages, front and Rear USB 3.2 Gen 2×2 Type-C®**

1. Intel® LGA 4677 socket: Ready for Intel Xeon® W-3400 & W-2400 processors
2. CPU and memory overclocking: Supports for up to 2TB of ECC R-DIMM DDR5 memory (2DPC)
3. Ultrafast connectivity: 5 PCIe 5.0 x16 slots, 10G & 2.5G LAN, 2 M.2, front and rear USB 3.2 Gen 2x2 Type-C® and 3 SlimSAS
4. Server-grade IPMI remote management: Hardware and software-level with IPMI expansion card support, plus a real-time monitoring and management software – Control Center Express
5. Robust power and thermal design: 12+1+1 power stages, 8-pin PCIe power connector, Massive VRM, chipset and M.2 heatsinks and M.2 backplate
6. Trusted stability: Highly compatible with the latest technologies with solid QVL list and tested for 24/7 operation, validated for extensive compatibility

# Vantageo 15E0-W

Features	Technical Specification
Processor	Intel® Socket LGA4677 for Xeon® W-3400 and W-2400 Series Processors* Supports Intel® Turbo Boost Max Technology 3.0
Chip Set	Intel® W790 Chipset
Memory	8 x DIMM slots, Max. 2048GB, DDR5 6800(OC)/6600(OC)/6400(OC)/6200(OC)/6000(OC)/5800(OC)/5600(OC)/5400(OC)/5200(OC)/5000(OC)/4800 ECC Registered Memory* Quad Channel Memory Architecture Supports Intel® Extreme Memory Profile (XMP) * Supported memory types, data rate (speed), and number of DRAM modules vary depending on the CPU and memory
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Expansion Slots	Intel® Xeon™ W-3400 and W-2400 Series Processors 5 x PCIe 5.0 x16 slot(s) (supports x16, x16, x16, x0/x8, x16/x8 modes) * Please check the PCIe bifurcation table on the support - To ensure compatibility of the device installed, peripherals.
Storage	Total supports 2 x M.2 slots, 4 x SATA 6Gb/s ports and 3 x SlimSAS ports* Intel® W790 Chipset** M.2_1 slot (Key M), type 2242/2260/2280/22110 (supports PCIe 4.0 x4 mode) M.2_2 slot (Key M), type 2280 (supports PCIe 4.0 x4 mode) SlimSAS_1 slot supports PCIe 3.0 x4 mode NVMe device SlimSAS_2 slot supports PCIe 4.0 x4 mode or up to 4 SATA devices via a transfer cable. The cable is purchased separately. SlimSAS_3 slot supports PCIe 4.0 x4 mode NVMe device 4 x SATA 6Gb/s ports* * Supports Intel® Virtual RAID on CPU (Intel® VROC) and Intel Volume Management Device (Intel®VMD) ** Intel® VROC Technology supports PCIe RAID 0/1/5/10, SATA RAID 0/1/5/10. VROC HW_Key is purchased separately.
Ethernet	1 x Marvell® AQtion 10Gb Ethernet 1 x Intel® 2.5Gb Ethernet
USB	Rear USB (Total 13 ports) 1 x USB 3.2 Gen 2x2 port(s) (1 x USB Type-C®) 4 x USB 3.2 Gen 2 port(s) (4 x Type-A ) 8 x USB 2.0 port(s) (8 x Type-A) Front USB (Total 7 ports) 1 x USB 3.2 Gen 2x2 (supports USB Type-C®) 1 x USB 3.2 Gen 1 header(s) support(s) 2 additional USB 3.2 Gen 1 ports 2 x USB 2.0 header(s) support(s) 4 additional USB 2.0 ports

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## Features

## Technical Specification

### Audio

Realtek S1220A 7.1 Surround Sound High Definition Audio CODEC\*

- Impedance sense for front and rear headphone outputs
- Internal audio Amplifier to enhance the highest quality sound for headphone and speakers
- Supports: Jack-detection, Multi-streaming, Front Panel Jack-retasking
- High quality 120 dB SNR stereo playback output and 113 dB SNR recording input (Line-in)
- Supports up to 32-Bit/192 kHz playback\*

Audio Features

- Power pre-regulator reduces power input noise to ensure consistent performance
- Rear optical S/PDIF out port
- Premium audio capacitors
- Dedicated audio PCB layers
- Unique de-pop circuit

\* Due to limitations in HDA bandwidth, 32-Bit/192 kHz is not supported for 7.1 Surround Sound audio.

### Back Panel I/O Ports

1 x USB 3.2 Gen 2x2 port(s) (1 x USB Type-C®)  
4 x USB 3.2 Gen 2 port(s) (4 x Type-A)  
8 x USB 2.0 port(s) (8 x Type-A)  
1 x Marvell® AQtion 10Gb Ethernet port  
1 x Intel® 2.5Gb Ethernet port  
5 x 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(s)
- 1 x 4-pin CPU OPT Fan header(s)
- 5 x 4-pin Chassis Fan header(s)
- 1 x W\_PUMP+ header(s)

Power related

- 2 x 24-pin Main Power connector
- 4 x 8-pin +12V Power connector
- 1 x 8-pin PCIe Power connector

Storage related

- 2 x M.2 slots (Key M)
- 3 x SlimSAS slots
- 4 x SATA 6Gb/s ports

USB

- 1 x USB 3.2 Gen 2x2 connector (support(s) USB Type-C® )
- 1 x USB 3.2 Gen 1 header(s) support(s) 2 additional USB 3.2 Gen 1 ports
- 2 x USB 2.0 header(s) support(s) 4 additional USB 2.0 ports

Miscellaneous

- 1 x BMC header
- 1 x COM Port header
- 1 x FlexKey button
- 1 x Front Panel Audio header (AAFP)
- 1 x LN2 Mode jumper
- 1 x ReTry button
- 1 x Start button
- 1 x SPI TPM header (14-1 pin)
- 1 x 20-3 pin System Panel header with Chassis intrude function
- 1 x Thermal Sensor header
- 1 x VROC Key header

# Vantageo 15E0-W

## Features

## Technical Specification

### Special Features

- Extreme OC Kit
  - FlexKey button
  - ReTry button
  - Start button
- 5X PROTECTION III
  - DIGI+ VRM (- Digital power design with DrMOS)
  - ESD Guards
  - LANGuard
  - Overvoltage Protection
  - Safeslot
  - Stainless-Steel Back I/O
- Q-Design
  - M.2 Q-Latch
  - Q-Code
  - Q-Connector
  - Q-DIMM
  - Q-LED (CPU [red], DRAM [yellow], VGA [white], Boot Device [yellow green])
  - Q-Slot
- Thermal Solution
  - M.2 heatsink backplate
  - M.2 heatsink
  - VRM heatsink design
- EZ DIY
  - BIOS FlashBack™ button
  - BIOS FlashBack™ LED
  - Clear CMOS button
  - ProCool II
  - Pre-mounted I/O shield
  - SafeSlot
  - SafeDIMM
- Bespoke Motherboard Design & Business Focused Features
  - 24/7 Reliability
  - Overcurrent Protection

### Software Features

- Exclusive Software
  - Armoury Crate
    - Fan Xpert 4
  - AI Suite 3
    - TPU
    - DIGI+ VRM
    - Turbo app
    - PC Cleaner
  - CPU-Z
  - IT Management software supported
    - Control Center Express(ACCE)
  - Adobe Creative Cloud (Free Trial)
  - Norton 360 Deluxe (60 Days Free Trial)
  - WinRAR
  - UEFI BIOS
  - EZ DIY
    - CrashFree BIOS 3
    - Start EzFlash
  - FlexKey

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Features	Technical Specification
BIOS	512 Mb Flash ROM, UEFI AMI BIOS
Manageability	WOL by PME, PXE (UEFI mode)
Accessories	Cables 2 x SATA 6Gb/s cables Miscellaneous 1 x Q-connector 1 x M.2 Rubber Package(s) 1 x M.2 backplate Rubber Package(s) 1 x CPU guard for LGA 4677 E1A 1 x CPU guard for LGA 4677 E1B Documentation 1 x ACC Express Activation Key Card 1 x User guide
Operating System	Windows® 11, Windows® 10 64-bit
Power supplies	Power supplies
Form Factor	CEB Form Factor 12 inch x 10.5 inch (30.5 cm x 26.67 cm)

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