



Datasheet Vantageo 15BD-WBI

SPECIFICATIONS

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**

* Refer to Vantageo.in for CPU support list.

** Intel® Turbo Boost Max Technology 3.0 support depends on the CPU types.

Chipset

Z690

Memory

4 x DIMM, Max. 128GB, DDR4

5333(OC)/5133(OC)/5000(OC)/4800(OC)/4600(OC)/4400(OC)/4266(OC)/4133(OC)/4000(OC)/3866(OC)/3733(OC)

/3600(OC)/3466(OC)/3400(OC)/3333(OC)/3200/3000/2933/2800/2666/2400/2133 Non-ECC, Un-buffered Memory*

Dual Channel Memory Architecture

Supports Intel® Extreme Memory Profile (XMP)

OptiMem II

*Actual Memory frequency support depends on the CPU types and DRAM modules, for more information refer to

Vantageo.in for the Memory QVL (Qualified Vendors Lists).

SPECIFICATIONS

Graphics

1 x DisplayPort**

1 x HDMI® port***

* Graphics specifications may vary between CPU types. Please refer to www.intel.com for any updates.

** Supports max. 4K@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® 12th Gen Processors*

1 x PCIe 5.0 x16 slot

Intel® Z690 Chipset**

1 x PCIe 3.0 x16 slot (supports x4 mode)

1 x PCIe 3.0 x4 slot

2 x PCIe 3.0 x1 slots

* Please check PCIe bifurcation table in support site.

** Supports Intel® Optane Memory H Series on PCH-attached PCIe slot

Storage

Supports 4 x M.2 slots and 4 x SATA 6Gb/s ports

Intel® 12th Gen Processors

M.2_1 slot (Key M), type 2242/2260/2280/22110

- Intel® 12th Gen processors support PCIe 4.0 x4 mode

Intel® Z690 Chipset**

M.2_2 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 & SATA modes)

M.2_3 slot (Key M), type 2242/2260/2280/22110 (supports PCIe 4.0 x4 mode)

M.2_4 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 mode)

4 x SATA 6Gb/s ports

* Intel® Rapid Storage Technology supports NVMe RAID 0/1/5, SATA RAID 0/1/5/10.

** Intel® Rapid Storage Technology supports Intel® Optane Memory H Series on PCH attached M.2 slots.

SPECIFICATIONS

Ethernet

TUF LANGuard

Wireless & Bluetooth

2x2 Wi-Fi 6 (802.11 a/b/g/n/ac/ax)

Supports 2.4/5GHz frequency band

Bluetooth v5.2

USB

Rear USB: Total 8 ports

1 x USB 3.2 Gen 2x2 port (1 x USB Type-C*)

2 x USB 3.2 Gen 2 ports (2 x Type-A)

5 x USB 3.2 Gen 1 ports (4 x Type-A + 1 x USB Type-C*)

Front USB: Total 7 ports

1 x USB 3.2 Gen 2 connector (supports USB Type-C*)

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

- Rear optical S/PDIF out port

- Premium audio capacitors

- Dedicated audio PCB layers

- Audio Cover

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Back Panel I/O Ports

- 1 x USB 3.2 Gen 2x2 port (1 x USB Type-C*)
- 2 x USB 3.2 Gen 2 ports (2 x Type-A)
- 5 x USB 3.2 Gen 1 ports (4 x Type-A + 1 x USB Type-C*)
- 1 x DisplayPort
- 1 x HDMI® port
- 1 x Wi-Fi Module
- 1 x Intel® 2.5Gb Ethernet port
- 5 x Audio jacks
- 1 x Optical S/PDIF out port

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
- 4 x 4-pin Chassis Fan headers

Power related

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

Storage related

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

USB

- 1 x USB 3.2 Gen 2 connector (supports USB Type-C*)
- 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

Miscellaneous

- 3 x Addressable Gen 2 headers
- 1 x AURA RGB header
- 1 x Clear CMOS header
- 1 x COM Port header
- 1 x Front Panel Audio header (AAFP)
- 1 x 20-3 pin System Panel header with Chassis intrude function
- 1 x Thunderbolt™ header

Special Features

Vantageo TUF Protection

- DIGI+ VRM (- Digital power design with DrMOS)
- Enhanced DRAM Overcurrent Protection
- ESD Guards
- TUF LANGuard
- Overvoltage Protection
- Safeslot
- Stainless-Steel Back I/O

Vantageo Q-Design

- M.2 Q-Latch
- Q-DIMM
- Q-LED (CPU [red], DRAM [yellow], VGA [white], Boot Device [yellow green])
- Q-Slot

Vantageo Thermal Solution

- M.2 heatsink
- VRM heatsink design

Vantageo EZ DIY

- CPU Socket lever protector
- ProCool
- Pre-mounted I/O shield
- SafeDIMM

AURA Sync

- AURA RGB header
- Addressable Gen 2 headers

BIOS

192 (128+64) Mb Flash ROM, UEFI AMI BIOS

Manageability

WOL by PME, PXE

Operating System

Windows® 11 64-bit, Windows® 10 64-bit

SPECIFICATIONS

Form Factor

ATX

30.5cm x 24.4cm

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