



Vantageo 15R1-WS

Flexible, Scalable, and Secure

AMD B450 Ultra Durable Motherboard with Realtek® GbE LAN with cFosSpeed, PCIe Gen3 x4 M.2, 7-colors RGB LED Strips Support, Anti-Sulfur Resistor, CEC 2019 ready

Key Features

- Supports AMD Ryzen™ 5000 series / Ryzen™ 5000 G-Series/ 3rd Gen Ryzen™/ 2nd Gen Ryzen™/ 1st Gen Ryzen™/ 2nd Gen Ryzen™ with Radeon™ Vega Graphics/ 1st Gen Ryzen™ with Radeon™ Vega Graphics/ Athlon™ with Radeon™ Vega Graphics Processors
- Dual Channel Non-ECC Unbuffered DDR4, 4 DIMMs
- HDMI, DVI-D Ports for Multiple Display
- Ultra-Fast PCIe Gen3 x4 M.2 with PCIe NVMe & SATA mode support
- High Quality Audio Capacitors and Audio Noise Guard with LED Trace Path Lighting
- RGB Fusion supports RGB LED Strips in 7-Colors
- Realtek® Gigabit LAN with cFosSpeed Internet Accelerator Software
- Smart Fan 5 Features 5 Temperature Sensors and 2 Hybrid Fan Headers with FAN STOP
- APP Center Including EasyTune™ and Cloud Station™ Utilities
- CEC 2019 Ready, Save Power with a Simple Click

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Features	Technical Specification	
CPU	AM4 Socket: Supports AMD Ryzen™ 5000 series / Ryzen™ 5000 G-Series/ 3rd Gen Ryzen™/ 2nd Gen Ryzen™/ 1st Gen Ryzen™/ 2nd Gen Ryzen™ with Radeon™ Vega Graphics/ 1st Gen Ryzen™ with Radeon™ Vega Graphics/ Athlon™ with Radeon™ Vega Graphics Processors	
Chip Set	AMD B450	
Memory	4 x DDR4 DIMM sockets supporting up to 128 GB of system memory Dual channel memory architecture Support for DDR4 3600(O.C.)/3466(O.C.)/3200(O.C.)/2933/2667/2400/2133 MHz memory modules Support for ECC Un-buffered DIMM 1Rx8/2Rx8 memory modules (operate in non-ECC mode) Support for non-ECC Un-buffered DIMM 1Rx8/2Rx8/1Rx16 memory modules Support for Extreme Memory Profile (XMP) memory modules	
Onboard Graphics	1 x DVI-D port, supporting a maximum resolution of 1920x1200@60 Hz * The DVI-D port does not support D-Sub connection by adapter. 1 x HDMI port, supporting a maximum resolution of 4096x2160@60 Hz(Note) * Support for HDMI 2.0 version and HDCP 2.2.(Note)	
Audio	Realtek® Audio CODEC High Definition Audio 2/4/5.1/7.1-channel * To configure 7.1-channel audio, you have to use an HD front panel audio module and enable the multi-channel audio feature through the audio driver. Support for S/PDIF Out	
LAN	Realtek® GbE LAN chip (10/100/1000 Mbit)	
Expansion Slots	1 x PCI Express x16 slot, running at x16 (PCIEX16)(Note) * For optimum performance, if only one PCI Express graphics card is to be installed, be sure to install it in the PCIEX16 slot. (The PCIEX16 slot conforms to PCI Express 3.0 standard.) 1 x PCI Express x16 slot, running at x4 (PCIEX4) 1 x PCI Express x1 slot (The PCIEX4 and PCI Express x1 slots conform to PCI Express 2.0 standard.)	
Multi-Graphics Technology	Support for AMD Quad-GPU CrossFire™ and 2-Way AMD CrossFire™ technologies	
Storage Interface	1 x M.2 connector (Socket 3, M key, type 2242/2260/2280/22110 SATA and PCIe x4/x2* SSD support) * Actual support may vary by CPU. * Supports only M.2 SATA SSDs when using an AMD Athlon™-series/ 7th Gen. A-series or Athlon™ X4 APU. 4 x SATA 6Gb/s connectors Support for RAID 0, RAID 1, and RAID 10 * Refer to "1-7 Internal Connectors," for the installation notices for the M.2 and SATA connectors.	
USB	2 x USB 3.1 Gen 1 ports available through the internal USB header 8 x USB 2.0/1.1 ports (4 ports on the back panel, 4 ports available through the internal USB headers) 4 x USB 3.1 Gen 1 ports on the back panel	
Internal I/O Connectors	1. 1 x 24-pin ATX main power connector 2. 1 x 8-pin ATX 12V power connector 3. 1 x CPU fan header 4. 1 x system fan header 5. 1 x M.2 Socket 3 connector 6. 4 x SATA 6Gb/s connectors 7. 1 x front panel header 8. 1 x front panel audio header 9. 1 x S/PDIF Out header 10. 1 x CPU cooler LED strip/RGB LED strip header	11. 1 x USB 3.1 Gen 1 header 12. 2 x USB 2.0/1.1 headers 13. 1 x Trusted Platform Module (TPM) header (2x10 pin, for the GC-TPM2.0 module only) 14. 1 x serial port header 15. 1 x Clear CMOS jumper

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Features	Technical Specification
Back Panel Connectors	1 x PS/2 keyboard/mouse port 1 x DVI-D port 1 x HDMI port 4 x USB 3.1 Gen 1 ports 4 x USB 2.0/1.1 ports 1 x RJ-45 port 3 x audio jacks
I/O Controller	ITE® I/O Controller Chip
H/W Monitoring	Voltage detection Temperature detection Fan speed detection Overheating warning Fan fail warning Fan speed control
BIOS	1 x 128 Mbit flash Use of licensed AMI UEFI BIOS PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0
Bundled Software	Norton® Internet Security (OEM version) cFosSpeed
Operating System	Support for Windows 10 64-bit Support for Windows 7 64-bit * To support Windows 7 64-bit, you must install an AMD Pinnacle Ridge & Summit Ridge CPU. * Please download the "Windows USB Installation Tool" from GIGABYTE's website and install it before installing Windows 7.
Form Factor	Micro ATX Form Factor; 24.4cm x 21.5cm
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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