



## Vantage 15DH-AR



### Key Applications

- Media and Entertainment Content Creation
- Product Design and Engineering Simulation
- AI and Deep Learning

### Key Features

1. AMD Ryzen™ Threadripper™ PRO 3000WX Series Processor, up to 64 Cores
2. 8 DIMMs; up to 2TB Registered ECC DDR4 3200-MHz Memory
3. 1x 10GBase-T LAN port, 1x 1GbE LAN port (shared with IPMI)
4. 6 PCI-E 4.0 x16 slots M.2 Interface: 4 PCI-E 4.0 x4, RAID 0, 1, 5 & 10

M.2 Form Factor: 2280, 22110 M.2 Key: M-Key U.2 Interface: 2 U.2 sockets (Software RAID 0,1)

5. 2 GbE LAN ports
6. 1 VGA port (dedicated for IPMI)
7. 7.1 HD Audio
8. 2000W Platinum Level Power Supply

AMD  
THREADRIPPER  
PRO



## SPECIFICATIONS

### Physical Stats

<b>Form Factor</b>	5U Rackmountable	<b>Model</b>	15DH-AR
--------------------	------------------	--------------	---------

### Processor / Cache

<b>CPU</b>	• Single AMD Ryzen™ Threadripper™ PRO 3000WX Series processor
	• Socket sWRX8/SP3
	• Supports CPU TDP up to 280W
<b>Cores</b>	Up to 64 Cores

### System Memory

<b>Memory Capacity</b>	• 8 DIMM slots
	• 8-channel memory bus
	• Supports up to 2TB Registered ECC DDR4 3200-MHz SDRAM

### Dimensions and Weight

<b>Width</b>	8.74" (222mm)	<b>Height</b>	21.06" (535mm)
<b>Depth</b>	22.56" (573mm)		

### Front Panel

<b>Buttons</b>	• Power On/Off button	• LED On/Off button
<b>LED's</b>	• Power LED	
<b>Ports</b>	• 1 headphone jack	• 1 audio jack • 1 USB 3.2 Port (Type C)
	• 2 USB 2.0 Ports	• 2 USB 3.2 Ports (Type A)

### Expansion Slots

<b>PCI - Express</b>	• 6 PCI-E 4.0 x16 slots		
<b>M.2</b>	• M.2 Interface: 4 PCI-E 4.0 x4	• Form Factor: 2280, 22110	
	• Key: M-Key		
<b>U.2</b>	• Interface: 2 U.2 Sockets	• Software RAID 0,1 support	

### Drive Bays

<b>Fixed</b>	• 4 internal fixed 3.5"/2.5" SATA3 drive bays	• 2 front fixed 2.5" SATA3 drive bays
<b>Peripheral Bay(s)</b>	2x 5.25" drive bays	

### On-Board Devices

<b>Chipset</b>	AMD WRX80		
<b>SATA</b>	SATA3 (6Gbps); RAID 0, 1, 5, 10		
<b>Network Controller</b>	• 10G LAN: Single LAN via Marvel AQC110C 10G Ethernet Controller	• 1GbE LAN: Single LAN with Intel® i210AT Ethernet Controller (shared with IPMI)	
<b>Audio</b>	7.1 channel HD Audio by Realtek LC4050H + ALC1220RJ45 output		

### System BIOS

<b>BIOS Type</b>	256Mb SPI Flash with AMI BIOS		
------------------	-------------------------------	--	--



### System Cooling

<b>Water Colling</b>	Optional high-performance closed-loop water cooling for CPU	<b>Fans</b>	1x 12cm rear exhaust fan
<b>Fans</b>	3x 12cm front cooling fans (optional)		3x 12cm top cooling fans (optional)

### Input / Output

<b>SATA</b>	• 4 SATA3 (6Gbps) ports	<b>LAN</b>	• 1 RJ45 10GBase-T Ethernet LAN ports • 1 RJ45 GbE Ethernet LAN port (shared with IPMI)
<b>TPM</b>	1 TPM 2.0 Header	<b>Video Output</b>	1 VGA port (dedicated for IPMI)
<b>USB</b>	• 1 USB 3.2 Gen2x2 port (Type C 20 Gbps)		• 5 USB 3.2 Gen2 ports (4 Type A, 1 front Intel Type C header, 10Gbps)
	• 5 USB 3.2 Gen1 ports (3 Type A, 1 via header)		• USB 2.0 via header
<b>Serial Port / Header</b>	2 COM Ports (1 rear, 1 header)	<b>Audio</b>	7.1 HD Audio with optical S/PDIF

### Power Supply

2000W PS/2 Multi-Output Power Supply

<b>Total Output Power and Input</b>	• 1200W with Input 100 - 115Vac		• 1500W with Input 115 - 200Vac 50-60Hz
	• 2000W with Input 200 - 264Vac		
<b>AC Input Frequency</b>	50-60Hz	<b>Dimensions (W x H x L)</b>	150 x 86 x 200 mm
<b>(+ 3.3V)</b>	Max: 25A / Min: 0A	<b>5V SB</b>	Max: 4A / Min: 0A
<b>(- 12V)</b>	Max: 0.5A / Min: 0A	<b>Output Type</b>	24pin ATX
<b>(+ 5V)</b>	Max: 25A / Min: 0.1A		
<b>(+ 12V)</b>	• Max: 100A / Min: 0.1A (100-115Vac)		• Max: 166.6A / Min: 0.1A (200- 264Vac)
	• Max: 125A / Min: 0.1A (115-120Vac)		

Certification



Platinum Certified

### Operating Environment

<b>RoHS</b>	RoHS Compliant		
<b>Environmental Specs</b>	• Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)		• Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)
	• Operating Relative Humidity: 8% to 90% (non-condensing)		• Non-operating Relative Humidity: 5% to 95% (non-condensing)

### Management

<b>Software</b>	• Intel® Node Manager	• IPMI 2.0
	• SSM, SPM, SUM	• SuperDoctor® 5
	• Watchdog	



### PC Health Monitoring

<b>CPU</b>	<ul style="list-style-type: none"><li>Monitors for CPU Cores, Chipset Voltages, Memory</li></ul>	<ul style="list-style-type: none"><li>4+1 Phase-switching voltage regulator</li></ul>
<b>Temperature</b>	<ul style="list-style-type: none"><li>Monitoring for CPU and chassis environment</li></ul>	<ul style="list-style-type: none"><li>Thermal Control for fan connectors</li></ul>
<b>Fan</b>	<ul style="list-style-type: none"><li>Fans with tachometer monitoring</li></ul>	<ul style="list-style-type: none"><li>Pulse Width Modulated (PWM) fan connectors</li></ul>
	<ul style="list-style-type: none"><li>Status monitor for speed control</li></ul>	

**Disclaimer** : Technical data is subject to modification and delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective manufacturer, the use of which by third parties for their own purposes may infringe the rights of such owner.