



## Vantage 15DP-E



Integrated Board



### Key Features



- Cloud Computing
- General purpose, SMB, Web Hosting
- Data Center

1. Dual AMD EPYC™ 7001/7002\* Series Processors (\*AMD EPYC 7002 series drop-in support requires board revision 2.x)
2. 2TB Registered ECC DDR4 2666MHz SDRAM in 16 DIMMs (7001 Processors) 4TB Registered ECC DDR4 3200MHz SDRAM in 16 DIMMs (Board revision 2.x required + 7002 Processors)
3. Expansion slots: 2 PCI-E x16 slots 3 PCI-E x8 slots M.2 Interface: 1 SATA/PCI-E 3.0 x2 (Platform with EPYC 7002 processor only supports PCI-E type M.2 module) M.2 Form Factor: 2280, 22110 M.2 Key: M-key
4. 8 hot-swap 3.5" SATA3 drive bays; 3 peripheral 5.25" drive bays; 1 M.2 NVMe SSD supported
5. Intel® i210 GbE LAN, 2 ports • **Software Out of Band License key (SFT-OOB-LIC) included for OOB BIOS management**
6. Dual 10G LAN ports
7. 1280W Redundant Power Supplies Platinum Level



SPECIFICATIONS			
Chassis			
Form Factor	Tower / 4U Rackmountable	Model	15DP-E
Processor / Chipset			
CPU	• Dual AMD EPYC™ 7001/7002* series Processors (* Board revision 2.x required)		
	• Socket SP3		
	• Supports CPU TDP 225W / cTDP up to 240W*		
Cores	• Up to 32 Cores (Board revision 1.x + 7001 Processors)	• Up to 64 Cores (Board revision 2.x + 7002 Processors)	
Chipset	System on Chip (SoC)		
System Memory			
Memory Capacity	• 16 DIMM slots	• Supports up to 2TB Registered ECC DDR4 2666MHz SDRAM (7001 Processors)	
	• 8-channel memory bus	• Supports up to 4TB Registered ECC DDR4 3200MHz SDRAM (Board revision 2.x required + 7002 Processors)	
Memory Type	• DDR4 2666 MHz Registered ECC, 288-pin gold-plated DIMMs (7001 Processors)	• DDR4 3200 MHz Registered ECC, 288-pin gold-plated DIMMs (Board revision 2.x required + 7002 Processors)	
DIMM Sizes	• 4GB, 8GB, 16GB, 32GB, 64GB, 128GB, 256GB* (* Board revision 2.x required + 7002 Processors)		
Memory Voltage	1.2V	Error Detection	• Corrects single-bit errors • Detects double-bit errors (using ECC memory)
Expansion Slots			
PCI - Express	• 2 PCI-E x16 slots	• 3 PCI-E x8 slots	
M.2	• Interface: 1 SATA/PCI-E 3.0 x2 (Platform with EPYC 7002 processor only supports PCI-E type M.2 module)	• Form factor: 2280, 22110 • Key: M-key	
On-Board Devices			
SATA	SATA3 (6 Gbps)		
VGA	ASPEED AST2500 BMC		
Network Controllers	• 2 Intel® X550 10GbE SFP Ethernet Controllers	• 1 Realtek RTL8211E PHY (dedicated IPMI)	
IPMI	• Support for Intelligent Platform Management Interface v.2.0	• ASPEED AST2500 BMC	• IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Dimensions and Weight			
Width	7" (178mm)	Height	17.8" (452mm)
Depth	25.5" (647mm)	Package	24.6" (H) x 14" (W) x 31.3" (D)
Weight	Net Weight: 59 lbs (26.76 kg)		Gross Weight: 62 lbs (28.12 kg)
Front Panel			
Buttons	• Power On/Off button		• System Reset button
LED's	• Power LED		• 2x Network activity LEDs
	• HDD activity LED		• System Overheat LED / Fan fail LED / UID LED
System Cooling			
Fans	• 3 internal hot-swap 9400 RPM fans		• 2 external rear hot-swap 9400 RPM fans



Input / Output			
SATA	10 SATA3 (6 Gbps) ports	LAN	<ul style="list-style-type: none"><li>Dual 10G LAN ports</li><li>1 RJ45 Dedicated IPMI LAN port</li></ul>
USB	<ul style="list-style-type: none"><li>2 USB 3.0 ports (rear)</li><li>2 USB 2.0 ports (rear)</li></ul>	SAS	<ul style="list-style-type: none"><li>8 SAS3 ports support via optional Add-on Card</li></ul>
VGA	<ul style="list-style-type: none"><li>1 VGA port</li></ul>	NVMe	<ul style="list-style-type: none"><li>2 NVMe support with optional cables</li></ul>
Others	<ul style="list-style-type: none"><li>2 SATA DOM power connector</li></ul>	<ul style="list-style-type: none"><li>1 COM port (rear)</li></ul>	<ul style="list-style-type: none"><li>TPM 1.2 header</li></ul>
Drive Bays			
Hot-Swap	<ul style="list-style-type: none"><li>8 hot-swap 3.5" Drive Bays:</li></ul>	8 SAS3	or 8 SATA3 by default
Peripheral Devices			
5.25"	<ul style="list-style-type: none"><li>3 peripheral 5.25" drive bays</li></ul>		
Backplane			
HDD Backplane	<ul style="list-style-type: none"><li>Supports 8 SATA3 or 8 SAS3 HDD</li></ul>		
Power Supply			
1280W Redundant High-efficiency Digital Power Supplies w/ PMBus 1.2			
AC Input	<ul style="list-style-type: none"><li>1000W Output @ 100-140V, 8-12A, 50-60Hz</li></ul>		<ul style="list-style-type: none"><li>1280W Output @ 180-240V, 6-8A, 50-60Hz</li></ul>
DC Output	<ul style="list-style-type: none"><li>1000W: +12V/83A; +5Vsb/4A</li></ul>		<ul style="list-style-type: none"><li>1280W: +12V/106.7A, +5Vsb/4A</li></ul>
<div><div>Certification</div><div><div></div><div></div><div>Platinum Certified [ Test Report ]</div></div></div>			
System BIOS			
BIOS Type	AMI 128Mb SPI Flash EEPROM		
BIOS Features	<ul style="list-style-type: none"><li>Plug and Play (PnP)</li></ul>		<ul style="list-style-type: none"><li>DMI 2.3</li></ul>
	<ul style="list-style-type: none"><li>PCI 2.2</li></ul>		<ul style="list-style-type: none"><li>ACPI 5.1</li></ul>
	<ul style="list-style-type: none"><li>USB Keyboard support</li></ul>		<ul style="list-style-type: none"><li>SMBIOS 3.1.1</li></ul>
Operating Environment / Compliance			
RoHS	RoHS Compliant		
Environmental Spec.	<ul style="list-style-type: none"><li>Operating Relative Humidity: 8% to 90% (non-condensing)</li></ul>		<ul style="list-style-type: none"><li>Non-operating Relative Humidity: 5% to 95% (non-condensing)</li></ul>
	<ul style="list-style-type: none"><li>Operating Temperature: 10°C to 35°C (50°F to 95°F)</li></ul>		<ul style="list-style-type: none"><li>Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)</li></ul>



PC Health Monitoring		
CPU	<ul style="list-style-type: none"><li>Monitors CPU Core Voltages, +12V, +3.3V, +5V, +5V standby, 3.3V standby, VBAT</li></ul>	<ul style="list-style-type: none"><li>CPU switching voltage regulator</li></ul>
FAN	<ul style="list-style-type: none"><li>Up to 8-fan status tachometer monitoring</li></ul>	<ul style="list-style-type: none"><li>Up to eight 4-pin fan headers</li></ul>
	<ul style="list-style-type: none"><li>Status monitor for speed control</li></ul>	<ul style="list-style-type: none"><li>Pulse Width Modulated (PWM) fan connectors</li></ul>
Temperature	<ul style="list-style-type: none"><li>Monitoring for CPU and chassis environment</li></ul>	<ul style="list-style-type: none"><li>CPU Thermal Trip Support</li></ul>
	<ul style="list-style-type: none"><li>I2C Temperature Sensing Logic environment</li></ul>	<ul style="list-style-type: none"><li>Thermal control for 8x Fan connectors</li></ul>
LED	<ul style="list-style-type: none"><li>CPU / System Overheat LED</li></ul>	
Other Features	<ul style="list-style-type: none"><li>Chassis Intrusion Detection</li></ul>	<ul style="list-style-type: none"><li>Chassis Intrusion Header</li></ul>

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