



## Datasheet Vantageo 2520-WS

### Key Features

Power Supply 1500 watts

Dimensions 527x232x506mm (DWH)

Mainboard Support: E-ATX, ATX, Micro-ATX, ITX

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1. 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors, Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 140W TDP, 2 UPI up to 10.4 GT/s
  2. Intel® C621
  3. Up to 2TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 2TB 3DS ECC LRDIMM, DDR4-2933MHz, in 8 DIMM slots
  4. 2 PCIe 3.0 x16,  
3 PCIe 3.0 x8,  
1 PCIe 3.0 x4 (in x8 slot)  
M.2 Interface: 1 SATA/PCIe 3.0 x4

# SPECIFICATIONS

## Chassis

Form Factor	ATX	Model	2520-WS
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## Processor / Cache

CPU	<ul style="list-style-type: none"> <li>2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors</li> <li>Dual Socket LGA-3647 (Socket P) supported, CPU TDP supports Up to 140W TDP, Dual UPI up to 10.4 GT/s</li> </ul>	<b>Cores</b> <ul style="list-style-type: none"> <li>Up to 28 Cores</li> </ul> <b>Note</b> <ul style="list-style-type: none"> <li>BIOS version 3.0a or above is required to support 2nd Generation Intel Xeon Scalable Processors-SP</li> </ul>
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## Dimensions

12.076" x 10.15" (30.67cm x 25.78cm)

## System Memory

Memory Capacity	<ul style="list-style-type: none"> <li>8 DIMM slots</li> <li>Up to 2TB 3DS ECC LRDIMM, DDR4-2933MHz; Up to 2TB 3DS ECC RDIMM, DDR4-2933MHz</li> </ul>	<b>Memory Type</b> <ul style="list-style-type: none"> <li>Memory Type: 2933/2666/2400/2133 MT/s ECC DDR4 LRDIMM (3DS), RDIMM (3DS)</li> </ul> <b>DIMM Sizes</b> <ul style="list-style-type: none"> <li>LRDIMM: 128GB</li> <li>RDIMM: 64GB</li> </ul>
Memory Voltage	<ul style="list-style-type: none"> <li>1.2V</li> </ul>	<b>Error Detection</b> <ul style="list-style-type: none"> <li>Corrects single-bit errors</li> </ul>

## Expansion Slots

PCIe - Express	2 PCIe 3.0 x16, 3 PCIe 3.0 x8, 1 PCIe 3.0 x4 (in x8 slot)	<b>M.2</b> <ul style="list-style-type: none"> <li>M.2 Interface: PCI-E 3.0 x4</li> <li>Form Factor: 2260, 2280</li> <li>Key: M-Key</li> </ul>
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## On-Board Devices

Chipset	Intel® C621 chipset	SATA	Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Network Controllers	Dual LAN with 1GbE with Intel® X722 + Marvell 88E1512	Graphics	ASPEED AST2500 BMC
IPMI	• ASPEED AST2500		

# SPECIFICATIONS

## Input / Output

**SATA** 10 SATA3 (6Gbps) port(s)

**USB**

- 4 USB 2.0 port(s) (2 rear; 2 via header)
- 3 USB 3.2 Gen1 port(s) (2 via header; 1 type A)

**Video Output** 1 VGA port

**TPM** • 1 TPM Header

**Serial Port/ Header** • 2 COM Ports (1 rear, 1 header)

**HDMI port version 1.4 (HDCP 1.4)**

## System BIOS

BIOS Type

AMI UEFI

## Management

Software

SuperDoctor® 5, NMI, SUM, KVM with dedicated LAN, SPM, Intel® Node Manager, SSM, IPMI2.0, Watchdog

## Operating Environment

Environmental Spec.

- Operating Temperature: 10°C - 35°C (50°F - 95°F)
- Non-operating Temperature: -40°C - 70°C (-40°F - 158°F)
- Operating Relative Humidity: 8% to 90% (non-condensing)
- Non-operating Relative Humidity: 5% to 95% (non-condensing)

## PC Health Monitoring

Voltage

- +12V, +3.3V, +5V, +5V standby, 3.3V standby, Monitors CPU voltages

LED

- CPU / System Overheat LED, UID/Remote UID, BMC/IPMI Heartbeat LED, Power LED

FAN

- 8x 4-pin fan headers (up to 8 fans), PWM fan speed control

Temperature

- CPU thermal trip support, Monitoring for CPU and chassis environment, PECI

Other Features

- ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, NCSI header, Node Manager Support, RoHS, SDDC, UID

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