



Datasheet

Vantageo 24PJ2-36ST

Key Features

- Corporate Database
 - Database Processing & Storage
 - Enterprise Server
 - HPC, Data Center
 - iSCSI SAN
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1. Dual Socket P (LGA 3647) support 2nd Gen Intel® Xeon® Scalable processors (Cascade Lake/Skylake)‡
 2. 16 DIMMs; up to 4TB 3DS ECC DDR4-2933MHz† RDIMM/LRDIMM, Supports Intel® Optane™ DCPMM††
 3. 3 PCI-E 3.0 x16, 4 PCI-E 3.0 x8 (slot 2 & 3 occupied by controller and JBOD expansion port)
 4. 36 Hot-swap 3.5" SAS3/SATA3 drive bays including 4 optional NVMe drives; 2 hot swap 2.5" SATA3 drive bays (rear), 2 M.2 NVMe, Expander based backplane
 5. Broadcom 3008 SAS3 AOC
 6. 2x 10GBase-T LAN ports with Intel X722 + PHY Intel X557
 7. Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN
 8. 3 Hot-swap 8cm redundant PWM cooling fans, 2 hot-swap 8cm rear exhaust PWM fans PWM fans
 9. 1200W Redundant Power Supplies **Titanium Level (96%)**

SPECIFICATIONS

Chassis

Form Factor 4U Rackmountable

Model **24PJ2-36ST**

Processor / Cache

CPU

- Dual Socket P (LGA 3647)
- 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors†, 3 UPI up to 10.4GT/s
- Support CPU TDP 70-205W

Cores

- Up to 28 Cores

Note

- BIOS version 3.2 or above is required to support 2nd Generation Intel Xeon Scalable Processors-SP (codenamed Cascade Lake-R)

Dimensions

Width

- 17.2" (437mm)

Height

- 7" (178mm)

Available Colors

- Black

Depth

- 27.5" (699mm)

Weight

- Gross Weight: 102.5 lbs (46.4 kg)
- Net Weight: 65.5 lbs (29.7 kg)

System Memory

Memory Capacity

- 16 DIMM slots
- Up to 4TB 3DS ECC DDR4- 2933MHz† RDIMM/LRDIMM
- Supports Intel® Optane™ DCPMM††

Memory Type

- 2933†/2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM

Note

† 2933MHz in two DIMMs per channel can be achieved by using memory purchased from Vantageo †† Cascade Lake only. Contact your Vantageo sales rep for more info

Expansion Slots

PCI - Express

- 3 PCI-E 3.0 x16 slot
- 4 PCI-E 3.0 x8 slots

- Slot 2 & 3 occupied by controller and JBOD Expansion Port

On-Board Devices

Chipset

Intel® C622 chipset

Network Controllers

Dual 10GBase-T LAN ports with Intel X722 + PHY Intel X557

IPMI

- Support for Intelligent Platform Management Interface v.2.0
- IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

SATA

SATA3 (6Gbps) with RAID 0, 1, 5, 10

Graphics

ASPEED AST2500 BMC

SAS

- SAS3 (12Gbps) via Broadcom 3008 AOC
- Broadcom 3008 controller

SPECIFICATIONS

Input / Output

- USB
- 4 USB 3.0 ports (rear)
 - 1 Type A

VGA 1 VGA port

Serial Port / Header

- 1 Fast UART 16550 port / 1 Header

LAN

- 2 RJ45 10GBase-T LAN ports
- 1 J45 Dedicated IPMI LAN port

Drive Bays

- Hot-Swap
- 36 Hot-swap 3.5" SAS3/SATA3 drive bays
 - 2 Hot-swap 2.5" SATA3 drive bays (rear)

Optional

- 4 U.2 NVMe
- 2 M.2 NVMe

Backplane

SAS3/SATA3 single expander per backplane

System Cooling

- Fans
- 3 Hot-swap 8cm redundant PWM cooling fans
 - 2 Hot-swap 8cm rear exhaust PWM fans
 - Redundant cooling

System BIOS

BIOS Type

256Mb AMI UEFI

Management

Software

- Intel® Node Manager, IPMI2.0, SPM, SUM, SuperDoctor® 5, Watchdog, NMI

Operating Environment

RoHS

- RoHS Compliant

Environmental Spec.

- Operating Temperature: 10°C - 35°C (50°F - 95°F)
- Non-operating Temperature: -40°C - 60°C (-40°F - 140°F)
- Operating Relative Humidity: 8% to 90% (non-condensing)
- Non-operating Relative Humidity: 5% to 95% (non-condensing)

PC Health Monitoring

CPU

- Monitors for CPU Cores, Chipset Voltages, Memory

- 4+1 Phase-switching voltage regulator

FAN

- Fans with tachometer monitoring
- Status monitor for speed control

- Pulse Width Modulated (PWM) fan connectors

Temperature

- Monitoring for CPU and chassis environment

- Thermal Control for fan connectors

SPECIFICATIONS

Power Supply (76mm Width)

1200W Redundant Power Supplies with PMBus

<p>Total Output Power</p> <ul style="list-style-type: none"> • 1000W/1200W 	<p>Dimension (W x H x L)</p> <ul style="list-style-type: none"> • 76 x 40 x 336 mm
<p>Input</p> <ul style="list-style-type: none"> • 100-127Vac / 15-12A / 50-60Hz • 200-240Vac / 8.5-7A / 50-60Hz • 200-240Vdc / 8.5-7A (for CCC only) 	<p>+12V</p> <ul style="list-style-type: none"> • Max: 83A / Min: 0A (100-127Vac) • Max: 100A / Min: 0A (200-240Vac) • Max: 100A / Min: 0A (200-240Vdc)
<p>+5Vsb</p> <ul style="list-style-type: none"> • Max: 4A / Min: 0A 	<p>Output Type</p> <ul style="list-style-type: none"> • 19 Pairs Gold Finger Connector

Certification



Titanium Level
[Test Report]

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