

Vantageo NAS Storage 12HH-C



Integrated Board



Key Features

- **5x PCI-E x8, 8x 3.5" Drives**
- **Cost-effective, Single Socket**

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1. Single socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4[†]/v3 family; QPI up to 9.6GT/s
 2. Intel® C612 chipset
 3. 8x 3.5" Hot-swap SATA3 drive bays; optional fixed drive bays
 4. Up to **1TB[†]** ECC 3DS LRDIMM , up to DDR4- **2400[†]**MHz ; 8 DIMM slots
 5. 5 PCI-E 3.0 x8 slots via riser card
 6. Intel® i350-AM2 Dual port GbE LAN
 7. 1 Slim DVD ROM drive bay (option)
 8. 2 USB 2.0 + 2 USB 3.0 ports (rear), 2 USB 2.0 ports (front)
 9. 500W Redundant Power Supplies **Platinum Level (94%+)**
 10. 3 middle cooling fans
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Specifications

Processor

- Intel® Xeon® processor E5-2600 v4[†]/ v3, E5-1600 v4[†]/ v3 family (up to 145W TDP ^{**})
- Single Socket R3 (LGA 2011)

Core / Cache ■ Up to **22 Cores**[†] / Up to **55MB**[†] Cache

Note [†] BIOS version 2.0 or above is required

Note ^{**} Motherboard supports this maximum TDP. Please verify your system can thermally support

System Memory

Memory Capacity ■ 8x 288-pin DDR4 DIMM slots
■ Up to 1TB ECC 3DS LRDIMM
■ Up to 512GB ECC LRDIMM
■ Up to 256GB ECC RDIMM

Memory Type ■ **2400**[†]/ 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit, 288-pin (RDIMM / LRDIMM) / 284-pin gold-plated DIMMs

DIMM Sizes ■ 3DS LRDIMM: 128GB
■ LRDIMM: 64GB, 32GB
■ RDIMM: 32GB, 16GB, 8GB, 4GB

Memory Voltage ■ 1.2 V

Error Detection ■ Corrects single-bit errors
■ Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset ■ Intel® C612 chipset

SATA ■ SATA3 (6Gbps) via C612 controller
■ RAID 0, 1, 10 support

IPMI ■ Support for Intelligent Platform Management Interface v.2.0
■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
■ ASPEED AST2400 BMC

Network Controllers ■ Intel® i350-AM2 Dual Port Gigabit Ethernet
■ Virtual Machine Device Queues reduce I/O overhead
■ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
■ 1 Realtek RTL8201N PHY (dedicated IPMI)

Video ■ ASPEED AST2400 BMC

Input / Output

SATA ■ 8 SATA3 (6Gbps) ports

LAN ■ 2 RJ45 Gigabit Ethernet LAN ports
■ 1 RJ45 Dedicated IPMI LAN port

Chassis

Form Factor ■ 2U Rackmount

Model ■ **12HH-C**

Dimensions

Height ■ 3.5" (88.9mm)

Width ■ 17.2" (437mm)
■ 25.5" (648mm)

Package ■ 11" (H) x 26.5" (W) x 34.5" (D)

Weight ■ Gross Weight: 59 lbs (26.7 kg)
■ Net Weight: 34 lbs (15.4 kg)

Available Colors ■ Black

Front Panel

Buttons ■ Power On/Off button
■ System Reset button

LEDs ■ Power LED
■ Hard drive activity LED
■ Network activity LEDs
■ System Information LED

Expansion Slots

PCI-Express ■ 4 PCI-E 3.0 x8 Full-height Full-length slots
■ 1 PCI-E 3.0 x8 Low-profile Half-length slot

Drive Bays

Hot-swap ■ 8 Hot-swap 3.5" SATA3 drive bays

Backplane

SAS/SATA HDD Backplane
(SAS support requires optional SAS controller)

System Cooling

Fans ■ 3x 80x80x38mm 7K RPM Cooling fans

Power Supply with Power Distributor

500W high-efficiency redundant power supplies with PMBus

AC Input ■ 100-240 V, 50-60 Hz, 6.1-2.6 Amp

DC Output ■ 4 Amp @ +5V standby
■ 41.7 Amp @ +12V

With Power Distributor ■ +5V: 30 Amp
■ +3.3V: 24 Amp
■ -12V: 0.6 Amp

Certification



Platinum Certified
[Test Report]

System BIOS

BIOS Type ■ 8MB SPI Flash EEPROM with AMI BIOS

USB	<ul style="list-style-type: none"> ■ 2 USB 2.0 ports (front) ■ 2 USB 2.0 + 2 USB 3.0 ports (rear)
Video	<ul style="list-style-type: none"> ■ 1 VGA port
Serial Port / Header	<ul style="list-style-type: none"> ■ 1 Fast UART 16550 serial port ■ 1 internal header

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BIOS Features	<ul style="list-style-type: none"> ■ DMI 2.3 ■ PCI 2.3 ■ ACPI 1.0 / 2.0 ■ USB Keyboard support ■ SMBIOS 2.3
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Operating Environment / Compliance

RoHS	<ul style="list-style-type: none"> ■ RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> ■ Operating Temperature: 10°C to 35°C (50°F to 95°F) ■ Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) ■ Operating Relative Humidity: 8% to 90% (non-condensing) ■ Non-operating Relative Humidity: 5% to 95% (non-condensing)