Vantageo Enterprise Storage - 24XP-24ST

Key Features

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4†/ v3 family; QPI up to 9.6GT/s
2. Up to 2TB† ECC 3DS LRDIMM , up to DDR4- 2400†MHz ; 16x DIMM slots
3. 1 PCI-E 3.0 x16, 6 PCI-E 3.0 x8 (slot 1 & 2 occupied by controller and JBOD expansion port)
4. Dual 10GBase-T LAN w/ Intel® X540
5. 24x 3.5" Hot-swap SAS3 (with Broadcom expander) / SATA3 drive bays; 2x 2.5" optional Hot-swap SATA drive bays (rear)
6. 6.SAS3 via Broadcom 3008 controller; IT mode
7. Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN
8. 8.2x 80mm hot-swap rear exhaust PWM fans
9. 9.920W Redundant Power SuppliesPlatinum Level (94%)

SPECIFICATIONS			
Chassis			
Form Factor	4U Rackmount	**Model**	24XP-24ST
Processor / Cache			
CPU	• Intel® Xeon® processor E5-2600 v4†/ v3 family (up to 145W TDP) *		
	• Dual Socket R3 (LGA 2011)		
Cores / Cache	Up to 22 Cores† / Up to 55MB† Cache		
System Bus	QPI up to 9.6 GT/s		
Note	† BIOS version 2.0 or above is required		
Note	* Please contact Vantageo Technical Support for additional information about frequency optimized CPUs and specialized system optimization.		
Dimensions			
Width	17.2" (437mm)	**Height**	7" (178mm)
Weight	Net Weight: 55 lbs (24.9 kg) Gross Weight: 92 lbs (41.7 kg)	**Avaiable Colors**	Black
Depth	26.5" (673mm)		
Front Panel			
Buttons	• Power On/Off button	• System Reset button	
LED's	• Power status LED	• 2 Network activity LEDs	
	• Hard drive activity LED	• System Information LED	
	• Power fail LED		
Drive Bays			
Hot-Swap	24x 3.5" Hot-swap SAS3/SATA3 drive baysdrive bays		
Optional	2x 2.5" Hot-swap SATA drive bays (rear)		
System Memory			
Memory Capacity	• 16x 288-pin DDR4 DIMM slots		
	• Up to 2TB† ECC 3DS LRDIMM, 512GB ECC RDIMM		
Memory Type	• 2400†/2133/1866/1600MHz ECCDDR4 SDRAM 72-bit		
DIMM Sizes	• 3DS LRDIMM: 128GB	• LRDIMM: 64GB, 32GB	• RDIMM: 64GB, 32GB, 16GB, 8GB, 4GB
Memory Voltage	1.2V	**Error Detection**	Corrects single-bit errors
Expansion Slots			
PCI - Express	• 1 PCI-E 3.0 x16 slot	• 6 PCI-E 3.0 x8 slots	
	• Slot 1 & 2 occupied by controller and JBOD Expansion Port		
Backplane			
SAS3/SATA3 single expander per backplane			
System Cooling			
Fans	• 2x 80mm hot-swap rear exhaust cooling fans	• Redundant cooling	

On-Board Devices

Chipset	Intel® C612 chipset	
SAS	• SAS3 (12Gbps) via Broadcom 3008	• IT mode firmware
SATA	SATA3 (6Gbps) with RAID 0, 1, 5, 10	
Graphics	ASPEED AST2400 BMC	
Network Controllers	• Intel® X540 Dual Port 10GbE	• Virtual Machine Device Queues reduce I/O overhead
	• Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output RJ45 output	• Realtek RTL8201N PHY (dedicated IPMI)
IPMI	• ASPEED AST2400 BMC	• Support for Intelligent Platform Management Interface v.2.0
	• IPMI 2.0 with virtual media over LAN and KVM-over-LAN support	

Input / Output

LAN	• 1 RJ45 Dedicated IPMI LAN port	• 2 RJ45 10GBase-T LAN ports
VGA	• 1 VGA port	
USB	• 2 USB 3.0 ports (rear) • 1 Type A	• USB 2.0 ports (rear)
Serial Port / Header	1 Fast UART 16550 port / 1 Header	

System BIOS

BIOS Type	128Mb SPI Flash EEPROM with AMI BIOS	
BIOS Features	• Plug and Play (PnP)	• APM 1.2
	• PCI 2.2	• ACPI 1.0 / 2.0
	• USB Keyboard support	• SMBIOS 2.3
	• UEFI	

Power Supply with Power Distributor   920W
Redundant High-Efficiency Power Supplies w/ Power Distributor, PMBus 1.2, I2C, and PFC

AC Input	100-240 V, 50-60 Hz, 11-4.5 Amp		
DC Output	• +5V standby: 4A		• +12V: 75A
With Power Distributor	• +3.3V: 24A	• +5V: 45A	• -12V: 0.6A

Certification   **80 PLUS PLATINUM**   **Platinum Certified [Test Report]**

Operating Environment			
RoHS	RoHS Compliant		
Operating Temperature Range	10°C to 35°C (50°F to 95°F)	**Non-Operating Temperature Range**	- 40°C to 70°C (-40°F to 158°F)
Operating Relative Humidity Range	8% to 90% (non-condensing)	**Non-Operating Relative Humidily Range**	5% to 95% (non-condensing)