

DS-VH22-R/HW102**Dual-socket Rackmount Server**

- Innovate at scale with challenging and emerging workloads, purpose-built for growing scale-out solutions,
- Outmaneuver threats with intelligence, automation, and recovery tools that include iDRAC9 Telemetry, BIOS live scanning, and Rapid OS recovery
- Supports multiple management models, best to manage your device. 1:1 or 1:Many; Full remote control and management functions
- Feature-optimized server with ideal selection of CPU, I/O, and storage performance for scale-out environments to meet data needs, suitable for various scale scenarios

Feature	Technical Specifications
Processor	Up to two 4th Generation Intel Xeon Scalable or Intel Xeon Max processors with up to 56 cores per processor and with optional Intel® QuickAssist Technology
Chipset	Intel C740 or C741
Memory	32 DDR5 DIMM slots, supports RDIMM 8 TB max, speeds up to 4800 MT/s - Supports registered ECC DDR5 DIMMs only
Storage controllers	- Internal Controllers: PERC H965i, PERC H755, PERC H755N, PERC H355, HBA355i - External Controller: PERC H965e - Internal Boot: Boot Optimized Storage Subsystem (BOSS-N1): HWRAID 2 x M.2 NVMe SSDs or USB - External HBA (non-RAID): HBA355e - Software RAID: S160
Drive Bays	Front bays: - Up to 12 x 3.5-inch SAS/SATA (HDD/SSD) max 240 TB - Up to 8 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) max 122.88 TB - Up to 16 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) max 245.76 TB - Up to 16 x EDSFF E3.S Gen5 NVMe (SSD) max 122.88 TB - Up to 24 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) max 368.64 TB Rear bays: - Up to 2 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) max 30.72 TB - Up to 4 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) max 61.44 TB - Up to 4 x EDSFF E3.S Gen5 NVMe (SSD) max 30.72 TB
Power Supplies	2800 W Titanium 200—240 VAC or 240 HVDC, hot swap redundant 2400 W Platinum 100—240 VAC or 240 HVDC, hot swap redundant 1800 W Titanium 200—240 VAC or 240 HVDC, hot swap redundant 1400 W Platinum 100—240 VAC or 240 HVDC, hot swap redundant 1100 W Titanium 100—240 VAC or 240 HVDC, hot swap redundant 1100 W LVDC -48 — -60 VDC, hot swap redundant 800 W Platinum 100—240 VAC or 240 HVDC, hot swap redundant 700 W Titanium 200—240 VAC or 240 HVDC, hot swap redundant
Cooling Options	- Air cooling - Optional Direct Liquid Cooling (DLC) Note: DLC is a rack solution and requires rack manifolds and a cooling distribution unit (CDU) to operate.
Fans	- Standard (STD) fans/High performance Silver (HPR Silver) fans/ High performance Gold (HPR Gold) fans - Up to 6 hot plug fans
Dimensions	- Height – 86.8 mm (3.41 inches) - Width – 482 mm (18.97 inches) - Depth – 772.13 mm (30.39 inches) with bezel 758.29 mm (29.85 inches) without bezel
Form Factor	2U rack server
Embedded Management	- iDRAC9 - iDRAC Direct

	• iDRAC RESTful API with Redfish • iDRAC Service Module • Quick Sync 2 wireless module	
Bezel	Optional LCD bezel or security bezel	
OpenManage Software	• CloudIQ for PowerEdge plug in • OpenManage Enterprise • OpenManage Enterprise Integration for VMware vCenter • OpenManage Integration for Microsoft System Center • OpenManage Integration with Windows Admin Center • OpenManage Power Manager plugin • OpenManage Service plugin • OpenManage Update Manager plugin	
Mobility	OpenManage Mobile	
OpenManage Integrations	• BMC Truesight • Microsoft System Center • OpenManage Integration with ServiceNow • Red Hat Ansible Modules • Terraform Providers • VMware vCenter and vRealize Operations Manager	
Security	• Cryptographically signed firmware • Data at Rest Encryption (SEDs with local or external key mgmt) • Secure Boot • Secure Erase • Secured Component Verification (Hardware integrity check) • Silicon Root of Trust • System Lockdown (requires iDRAC9 Enterprise or Datacenter) • TPM 2.0 FIPS, CC-TCG certified, TPM 2.0 China NationZ	
Embedded NIC	2 x 1 GbE LOM card (optional)	
Network options	• 1 x OCP card 3.0 (optional) Note: The system allows either LOM card or an OCP card or both to be installed in the system. • 1 x Management Interface Card (MIC) to support Dell Data Processing Unit (DPU) card (optional) Note: The system allows either LOM card or MIC card to be installed in the system.	
GPU Options	Up to 2 x 350 W DW and 6 x 75 W SW	
GPU Controller	Integrated	
Ports	Front Ports • 1 x iDRAC Direct (Micro-AB USB) port • 1 x USB 2.0 • 1 x VGA	Rear Ports • 1 x Dedicated iDRAC Ethernet port • 1 x USB 2.0 • 1 x USB 3.0 • 1 x VGA • 1 x Serial (optional) • 1 x VGA (optional for Direct Liquid Cooling configuration)

	Internal Ports • 1 x USB 3.0 (optional)
PCIe	Up to eight PCIe slots: • Slot 1: 1 x8 Gen5 or 1 x8/1 x16 Gen4 Full height, Half length or 1 x16 Gen4 Full height, Full length • Slot 2: 1 x8/1 x16 Gen5 or 1 x8 Gen4 Full height, Half length or 1 x16 Gen5 Full height, Full length • Slot 3: 1 x16 Gen4 Low profile, Half length • Slot 4: 1 x8 Gen4 Full height, Half length • Slot 5: 1 x8/1 x16 Gen4 Full height, Half length or 1 x16 Gen4 Full height, Full length • Slot 6: 1 x16 Gen4 Low profile, Half length • Slot 7: 1 x8/1 x16 Gen5 or 1 x8 Gen4 Full height, Half length or 1 x16 Gen5 Full height, Full length • Slot 7 SNAPI: 1 x16 Gen5 Full height, Half length • Slot 8: 1 x8 Gen5 or 1 x8 Gen4 Full height, Half length
Notes	Support flexible customization, including CPU, memory, hard drive, OS, etc.
Available Model	
DS-VH22-R/HW102	5418Y(24C/48T/2.0-3.8GHz 45M)x2/32Gx4/480G SATA SSDx2/2.4T 10K SAS HDDx6/1GbEx2/10G SFPx2/32G FCx2/800W(1+1)/R760/2U/DVD/Winserver 2022/3years PSP;

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