Wavesys Server Appliances

IP-03 Series

The Power to do More

IP-03R-NVR26B2U-D16S

Wavesys Dual Socket 28Bay 2U Server Appliances for most demanding applications including Video Management, Video Analytics, Artificial Intelligence and Machine Learning

Exceptional all in one storage solution with object storage technology designed to be easily configurable, serviceable, and scalable. The appliance delivers reduced latency using storage tiering and accelerators supported by PCIe Gen4. It supports up to 28 internal bays with capacity of 22 TB per bay, making it the most capable and agile storage appliance.

Boasts exceptional performance with unrivaled expandability with new Smart flow supported air cooled technology within its chassis thus supporting the highest core count CPUs

Utilizing NVMe drives and NVIDIA accelerators, we are able to significantly reduce latency and improve performance.

Powered by latest Intel Xeon Scalable 4th Generation and 5th generation Processors with both CPUs adding upto 64 cores for peaked processing performance Each Wavesys appliance unit is rigorously tested, can be customized to meet solution design, functionality and reliability, testedand certified by Wavesys global team for optimal performance , deliveringready to use appliance simplifying deployment and case resolution.

Cyber Resilient Architecture with protected supply chain and factory-to-site integrity assurance and end-to-end boot resilience while Multi-Factor Authentication (MFA) and role-based access controls ensuring trusted operations

Increased seven percent more Internal Storage capacity with Up to 28 x 3.5-inch duty cycle SAS/SATA (HDD/SSD) max 616 TB storage for high-speed applications like video surveillance.

Server appliances can be purpose built , driven by performance by using NVIDIA Passive GPU Accelerator cards ,increased memory workloads with up to 16 DDR5 RDIMMS up to 4800 MT/sec for 1DPC when using 4th Gen Intel Xeon Processors and up to 16 DDR5 RDIMMS up to 5600 MT/sec for 1DPC when using 5th Gen Intel Xeon Scalable processors.
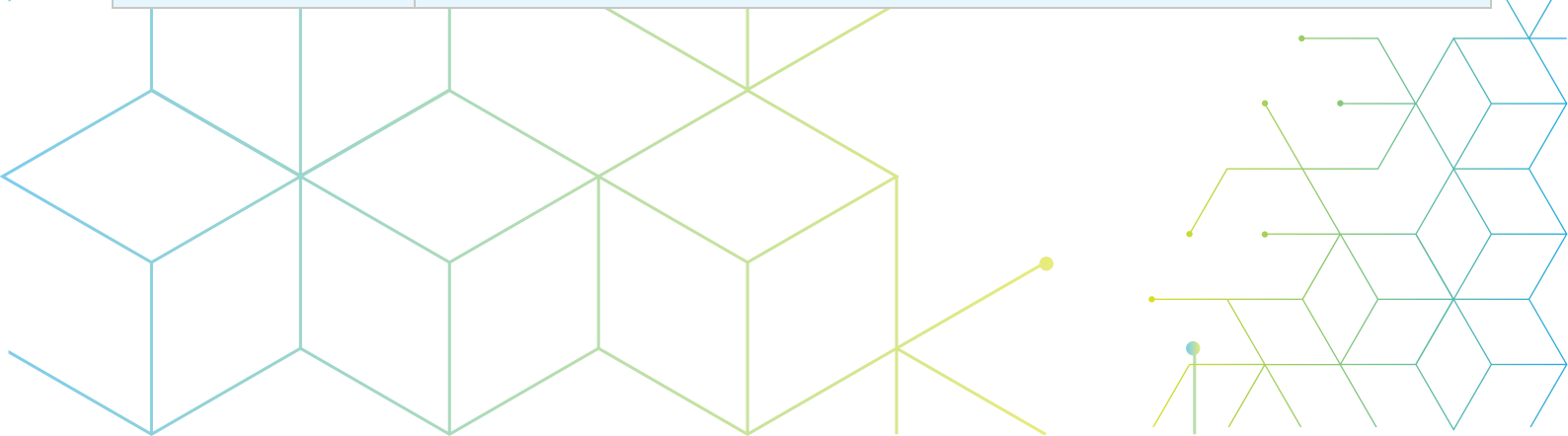
Enjoy peace of mind by opting for validated appliances preloaded with Wavesys Video Management Software WVMS, Wavesys Ai Analytics WVCA, Wavesys Facial Recognition Software WFRS and Wavesys LPR with easy activation licenses guaranteeing optimal fit, both now and down the road with software supporting native level integration with 15000+ devices

Simplify, automate and centralize one-to-many management with systems management console and iDRAC delivering enhanced user experience by proactive monitoring and helping in failure prevention.

Onsite Support with Standard 3 Year Warranty with extension to up to 5 and 7 Years On Special request and additional costs.

Feature	Technical Specifications
Model	IP-03R-NVR26B2U-D16S
Processor	Up to two 4th Generation Intel Xeon Scalable processors, with up to 32 cores per processor or Up to two 5th Generation Intel Xeon Scalable processors, with up to 28 cores per processor and optional Intel® QuickAssist Technology
Memory	• 16 DDR5 DIMM slots, supports RDIMM 1.5 TB max, speeds up to 5600 MT/s • Supports registered ECC DDR5 DIMMs only Note: The maximum memory speed the system will support is 4800 MT/s due to the limitation of the processor. Note: 5600 MT/s RDIMMs are applicable for 5th Gen Intel Xeon Scalable Processors.
Storage controllers	• Internal Controllers (RAID): PERC H755, PERC H965i, PERC H355 • Internal Controllers (non-RAID): HBA355i • Internal Boot: Boot Optimized Storage Subsystem (BOSS-N1): HWRAID 2 x M.2 NVMe SSD drives (hot swappable), or USB • External HBAs (non-RAID): HBA355e • External Controllers (RAID): H965e
Drive Bays	Front bays: • Up to 12 x 3.5-inch SAS/SATA max 264 TB Mid bays: • Up to 12 x 3.5-inch SAS/SATA max 264 TB Rear bays: • Up to 4 x 3.5-inch SAS/SATA max 88 TB • Up to 4 x 2.5-inch NVMe with 3.5-inch carrier max 30.72 TB • Up to 2 x 2.5-inch NVMe max 15.36 TB • 4 x E3.S NVMe max 30.72 TB
Power Supplies	• 1800 W Titanium 200—240 VAC or 240 HVDC, hot swap redundant • 1400 W Platinum 100—240 VAC or 240 HVDC, hot swap redundant • 1400 W Titanium 277 VAC or 336 HVDC, hot swap redundant • 1100 W Titanium 100—240 VAC or 240 HVDC, hot swap redundant • 1100W LVDC –48 — –60 VDC, hot swap redundant • 700 W Titanium 200—240 VAC or 240 HVDC, hot swap redundant
Cooling Options	Air cooling
Fans	• Up to 6 Standard (STD) fans, hot swappable.
Dimensions	• Height — 86.8 mm (3.41 inches) • Width — 481.6 mm (18.96 inches) • Depth — 837 mm (32.95 inches)
Form Factor	2U rack server
Embedded Management	• iDRAC9 • iDRAC Direct • iDRAC RESTful API with Redfish • iDRAC Service Module
Bezel	N/A
OpenManage Software	• OpenManage Enterprise • OpenManage Power Manager plugin • OpenManage Service plugin • OpenManage Update Manager plugin • CloudIQ for PowerEdge plug in • OpenManage Enterprise Integration for VMware vCenter • OpenManage Integration for Microsoft System Center • OpenManage Integration with Windows Admin Center
Mobility	OpenManage Mobile
Tools	• iDRAC RESTful API with Redfish • IPMI • RACADM CLI • Dell System Update • Enterprise Catalogs • Dell Repository Manager

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
Embedded NIC	2 x 1 GbE LOM
Network options	1 x OCP card 3.0 (optional)
GPU Options Network options	Up to 2 x 75 W SW, 1 x 75 W SW + 1 x 150 W SW or 1 x 180 W DW • 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 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
Ports	**Front Ports** • 1 x iDRAC Direct (Micro-AB USB) port • 1 x USB 2.0 • **Internal Ports** • 1 x USB 3.0 (optional)	**Rear Ports** • 1 x Dedicated iDRAC Ethernet port • 1 x USB 2.0 • 1 x USB 3.0 • 1 x VGA
PCIe	Up to five PCIe slots: • Slot 1: 1 x16 Gen4 Low profile, Half length • Slot 2: 1 x8 (x16 connector) Gen4 Low profile, Half length or 1 x16 Gen4 Full height, Full length or 1 x16 Gen4 Full height, Half length • Slot 3: 1 x16 Gen4 Low profile, Half length or 1 x16 Gen4 Full height, Full length or 1 x16 Gen4 Full height, Half length • Slot 4: 1 x16 Gen4 Low profile, Half length • Slot 5: 1 x16 Gen4 Low profile, Half length Note: Slot 5 is dedicated for internal PERC card
Operating System and Hypervisors	• Canonical Ubuntu Server LTS • Microsoft Windows Server with Hyper-V • Red Hat Enterprise Linux • SUSE Linux Enterprise Server • VMware ESXi .
Optional Application Software Preloaded at Factory	• Video Management software-WVMS • Video Content Analytics-WVCA • Face recognition Software- WVMS-FR • License Plate Recognition Software-WVMS-LPR • WVCA- Forensic search Software • Videowall
Warranty	3 year warranty with next business day (Third party on-site Warranty Support)

Supported Processors

Process or	Clock Speed (Ghz)	Cache (M)	UPI (GT/ s)	Cores	Threads	urbo	Memory Speed (MT/s)	Memory Capacity	DP
6428N	1.8	60	16	32	64	Turbo	4800	4 TB	185 W
6426Y	2.6	38	16	16	32	Turbo	4800	4 TB	185 W
5418Y	2	45	16	24	48	Turbo	4400	4 TB	185 W
5418N	1.8	45	16	24	48	Turbo	4400	4 TB	165 W
5416S	2	30	16	16	32	Turbo	4400	4 TB	150 W
5415+	2.9	23	16	8	16	Turbo	4400	4 TB	150 W
5412U	2.1	45	16	24	48	Turbo	4400	4 TB	185 W
5411N	1.9	45	16	24	48	Turbo	4400	4 TB	165 W
4416+	2	38	16	20	40	Turbo	4000	4 TB	165 W
4410Y	2	30	16	12	24	Turbo	4000	4 TB	150 W
5512U	2.1	52.5	N/A	28	56	Turbo	4800	4 TB	185 W
4514Y	2.0	30	16	16	32	Turbo	4400	4 TB	150 W
4510	2.4	30	16	12	24	Turbo	4400	4 TB	150 W
4509Y	2.6	23	16	8	16	Turbo	4400	4 TB	125 W

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