



# Wavesys Server Appliances

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IP-03 Series

The Power to do More

# IP-03R-NVR4B1U-D16S

Wavesys Dual Socket 4 Bay 1U Server Appliances for most demanding applications including Video Management, recording, database and monitoring application.

Ideal choice for dense and balance computing with the latest technology to power demanding workloads including virtualization scale out database and video management and recording applications.

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

Powered by latest 2x 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, tested and certified by Wavesys global team for optimal performance , delivering ready 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 Internal Storage capacity with Up to 4 x 3.5-inch duty cycle SAS/SATA (HDD/SSD) max 80 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-NVR4B1U-D16S
Processor	<ul style="list-style-type: none"> <li>Up to two 5th Generation Intel Xeon Scalable processor with up to 28 cores and 4th Generation Intel Xeon Scalable processor with up to 32 cores per processor</li> </ul>
Memory	<ul style="list-style-type: none"> <li>16 DDR5 DIMM slots, Supports RDIMM 1.5 TB max</li> <li>Speeds up to 4800 MT/s on the 4th Generation Intel Xeon Scalable or Intel Xeon Max processors</li> <li>Speeds up to 5600 MT/s on the 5th Generation Intel Xeon Scalable processors</li> <li>Supports registered ECC DDR5 DIMMs only</li> </ul>
Storage controllers	<ul style="list-style-type: none"> <li>Internal Controllers: PERC H965i, PERC H755, PERC H755N, PERC H355, HBA355i</li> <li>Internal Boot: Boot Optimized Storage Subsystem (BOSS-N1): HWRAID 1, 2 x M.2 NVMe SSDs (cold swap) or USB</li> <li>External HBA (non-RAID): HBA355e</li> <li>Software RAID: S160</li> </ul>
Drive Bays	<p>Front bays:</p> <ul style="list-style-type: none"> <li>0 drive bay</li> <li>Up to 4 x 3.5-inch SAS/SATA (HDD/SSD) max 80 TB</li> <li>Up to 8 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) max 122.88 TB</li> <li>Up to 10 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) max 153.6TB</li> </ul> <p>Rear bays:</p> <ul style="list-style-type: none"> <li>Up to 2 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) max 15.2 TB</li> </ul>
Power Supplies	<ul style="list-style-type: none"> <li>1800 W Titanium 200—240 VAC or 240 VDC</li> <li>1400 W Platinum 100—240 VAC or 240 VDC</li> <li>1400 W Titanium 277 VAC or HVDC (HVDC stands for High - Voltage DC, with 336V DC)</li> <li>1100 W Titanium 100—240 VAC or 240 VDC</li> <li>1100 W -(48V — 60V) DC</li> <li>800 W Platinum 100—240 VAC or 240 VDC</li> <li>700 W Titanium 200—240 VAC or 240 VDC</li> <li>600 W Platinum 100—240 VAC or 240 VDC</li> </ul>
Cooling Options	<ul style="list-style-type: none"> <li>Air cooling</li> </ul>
Fans	<ul style="list-style-type: none"> <li>Standard (STD) fans / High performance Gold (VHP) fans, Up to 7 hot swappable fans</li> </ul>
Dimensions	<ul style="list-style-type: none"> <li>Height – 42.8 mm (1.68 inches)</li> <li>Width – 482 mm (18.97 inches)</li> <li>Depth – 748.79 mm (29.85 inches) with bezel 712.95 mm (28.05 inches) without bezel</li> <li>Weight – 19.45 Kg (55.33 pound)</li> </ul>
Form Factor	1U rack server
Embedded Management	<ul style="list-style-type: none"> <li>iDRAC9</li> <li>iDRAC Direct</li> <li>iDRAC RESTful API with Redfish</li> <li>iDRAC Service Module</li> <li>Quick Sync 2 wireless module</li> </ul>
Bezel	Optional LCD bezel or security bezel
OpenManage Software	<ul style="list-style-type: none"> <li>CloudIQ for PowerEdge plug in</li> <li>OpenManage Enterprise</li> <li>OpenManage Enterprise Integration for VMware vCenter</li> <li>OpenManage Integration for Microsoft System Center</li> <li>OpenManage Integration with Windows Admin Center</li> <li>OpenManage Power Manager plugin</li> <li>OpenManage Service plugin</li> <li>OpenManage Update Manager plugin</li> </ul>
Mobility	OpenManage Mobile
OpenManage Integrations	<ul style="list-style-type: none"> <li>BMC Truesight</li> <li>Microsoft System Center</li> <li>OpenManage Integration with ServiceNow</li> <li>Red Hat Ansible Modules</li> <li>Terraform Providers</li> <li>VMware vCenter and vRealize Operations Manager</li> </ul>

Security	<ul style="list-style-type: none"> <li>• Cryptographically signed firmware</li> <li>• Data at Rest Encryption (SEDs with local or external key mgmt)</li> <li>• Secure Boot</li> <li>• Secure Erase</li> <li>• Secured Component Verification (Hardware integrity check)</li> <li>• Silicon Root of Trust</li> <li>• System Lockdown (requires iDRAC9 Enterprise or Datacenter)</li> <li>• TPM 2.0 FIPS, CC-TCG certified, TPM 2.0</li> </ul>	
Embedded NIC	2 x 1 GbE LOM card (optional)	
Network options	<ul style="list-style-type: none"> <li>• 1 x OCP card 3.0 (optional)</li> </ul>	
GPU Options	-	
Ports	<b>Front Ports</b> 1 x iDRAC Direct (Micro-AB USB) port, 1 x USB 2.0, 1 x VGA	<b>Rear Ports</b> <ul style="list-style-type: none"> <li>• 1 x Dedicated iDRAC Ethernet port, 1 x USB 2.0, 1 x USB 3.0, 1 x VGA, 1 x Serial (optional)</li> </ul>
	<b>Internal Ports</b> <ul style="list-style-type: none"> <li>• 1 x USB 3.0 (optional)</li> </ul>	
PCIe	<ul style="list-style-type: none"> <li>• 1 CPU Configuration: Up to 2 PCIe slots (1 x16 Gen4 + 1 x8 Gen5)</li> <li>• 2 CPU configuration: Up to 3 PCIe Gen4 slots (1 x16 Gen4 + 2 x8 Gen4) or up to 2 PCIe Gen5 slots (1 x16 Gen5 + 1 x8 Gen5)</li> </ul>	
Operating System and Hypervisors	<ul style="list-style-type: none"> <li>• Microsoft Windows Server with Hyper-V</li> <li>• Red Hat Enterprise Linux</li> <li>• SUSE Linux Enterprise Server</li> <li>• VMware ESXi</li> <li>• Canonical Ubuntu Server LTS</li> </ul>	
Optional Application Software Preloaded at Factory	<ul style="list-style-type: none"> <li>• Video Management software-WVMS</li> <li>• Video Content Analytics-WVCA</li> <li>• Face recognition Software- WVMS-FR</li> <li>• License Plate Recognition Software-WVMS-LPR</li> <li>• WVCA- Forensic search Software</li> <li>• Videowall</li> </ul>	
Warranty	3 year warranty with next business day (Third party on-site Warranty Support)	





## Supported Processors

Processor	ClockSpeed(GHz)	Cache(M)	UPI(GT/s)	Cores	Threads	Turbo	MemorySpeed(MT/s)	TDP
6534	3.9	22.5	20	8	16	Turbo	4800	195W
6526Y	2.8	37.5	20	16	32	Turbo	5200	195W
5512U	2.1	52.5	N/A	28	56	Turbo	4800	185W
4514Y	2.0	30	16	16	32	Turbo	4400	150W
4510	2.4	30	16	12	24	Turbo	4400	150W
4509Y	2.6	23	16	8	16	Turbo	4400	125W
6448Y	2.2	60	16	32	64	Turbo	4800	225W
6442Y	2.6	60	16	24	48	Turbo	4800	225W
6438Y+	2.0	60	16	32	64	Turbo	4800	205W
6426Y	2.6	38	16	16	32	Turbo	4800	185W
6414U	2.0	60	16	32	64	Turbo	4800	185W
5420+	2.0	53	16	28	56	Turbo	4400	205W
5418Y	2.0	45	16	24	48	Turbo	4400	185W
5416S	2.0	30	16	16	32	Turbo	4400	150W
5415+	2.9	23	16	8	16	Turbo	4400	150W
5412U	2.1	45	16	24	48	Turbo	4400	185W
4416+	2.0	38	16	20	40	Turbo	4000	165W
4410Y	2.0	30	16	12	24	Turbo	4000	150W
4410T	2.7	27	16	10	24	Turbo	4000	150W
3408U	1.8	23	16	8	16	NoTurbo	4000	125W

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