



# Wavesys Server Appliances

**IP-03 Series**

**The Power to do More**

# IP-03R-NVR12B2U-D15S

Wavesys Dual Socket 12 Bay 2U Server Appliances for most demanding applications including Video Management, Video Analytics, Artificial Intelligence and Machine Learning

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

Support for GPUs including 2 x double-wide or 6 x single-wide for workloads requiring acceleration.

Powered by latest Intel Xeon Scalable 3rd generation Processors with both CPUs adding upto 40 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 12 x 3.5-inch duty cycle SAS/SATA (HDD/SSD) max 192 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 32 DDR5 RDIMMS up to 3200 MT/sec when using 3rd Gen Intel Xeon 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-NVR12B2U-D15S	
Processor	Up to two 3rd Generation Intel Xeon Scalable processors, with up to 40 cores per processor	
Memory	<ul style="list-style-type: none"> <li>32 DDR4 DIMM slots, supports RDIMM 2 TB max or LRDIMM 8 TB max, speeds up to 3200 MT/s</li> <li>Up to 16 Intel Persistent Memory 200 series (BPS) slots, 8 TB max</li> <li>Supports registered ECC DDR4 DIMMs only</li> </ul>	
Storage controllers	<ul style="list-style-type: none"> <li>Internal controllers: PERC H745, HBA3551, S150, H345, H755, H755N</li> <li>Boot Optimized Storage Subsystem (BOSS-S2): HW RAID 2 x M.2 SSDs 240 GB or 480 GB</li> <li>Boot Optimized Storage Subsystem (BOSS-S1) HW RAID 2 x M.2 SSDs 240 GB or 480 GB</li> <li>External PERC (RAID): PERC H840, HBA355E</li> </ul>	
Drive Bays	<p>Front bays:</p> <ul style="list-style-type: none"> <li>Up to 12 x 3.5-inch SAS/SATA (HDD/SSD) max 192 TB</li> <li>Up to 8 x 2.5-inch NVMe (SSD) max 122.88 TB</li> <li>Up to 16 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) max 245.76 TB</li> <li>Up to 24 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) max 368.84 TB</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 30.72 TB</li> <li>Up to 4 x 2.5-inch SAS/SATA/NVMe (HDD/SSD) max 61.44 TB</li> </ul>	
Power Supplies	<ul style="list-style-type: none"> <li>700 W Titanium HLAC/240 mixed mode</li> <li>800 W Platinum AC/240 mixed mode</li> <li>1100 W Titanium AC/240 mixed mode</li> <li>1100 W DC -48 - -60 V</li> <li>1400 W Platinum AC/240 mixed mode</li> <li>1800 W Titanium HLAC/240 mixed mode</li> <li>2400 W Platinum AC/240 mixed mode</li> <li>2800 W Titanium HLAC/240 mixed mode</li> </ul>	
Cooling Options	Air cooling, optional processor liquid cooling	
Fans	<ul style="list-style-type: none"> <li>Standard fan/High performance SLVR fan/High performance GOLD fan</li> <li>Up to six hot plug fans</li> </ul>	
Dimensions	<ul style="list-style-type: none"> <li>Height – 86.8 mm (3.41 inches)</li> <li>Width – 482 mm (18.97 inches)</li> <li>Depth – 758.3 mm (29.85 inches) - without bezel 772.14 mm (30.39 inches) - with bezel</li> </ul>	
Form Factor	2U rack server	
Embedded Management	<ul style="list-style-type: none"> <li>iDRAC9</li> <li>iDRAC Service Module</li> <li>iDRAC Direct</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>OpenManage Enterprise</li> <li>OpenManage Power Manager plugin</li> <li>OpenManage SupportAssist plugin</li> <li>OpenManage Update Manager plugin</li> </ul>	
Mobility	OpenManage Mobile	
Integrations and Connections	<p>OpenManage Integrations</p> <ul style="list-style-type: none"> <li>BMC Truesight</li> <li>Microsoft System Center</li> <li>Red Hat Ansible Modules</li> <li>VMware vCenter and vRealize Operations Manager</li> </ul>	<p>OpenManage Connections</p> <ul style="list-style-type: none"> <li>IBM Tivoli Netcool/OMNibus</li> <li>IBM Tivoli Network Manager IP Edition</li> <li>Micro Focus Operations Manager</li> <li>Nagios Core</li> <li>Nagios XI</li> </ul>
Security	<ul style="list-style-type: none"> <li>Cryptographically signed firmware</li> <li>Secure Boot</li> <li>Secure Erase</li> <li>Silicon Root of Trust</li> <li>System Lockdown (requires iDRAC9 Enterprise or Datacenter)</li> <li>TPM 1.2/2.0 FIPS, CC-TCG certified,</li> </ul>	
Embedded NIC	2 x 1 GbE LOM	
Network Options	1 x OCP 3.0 (x8 PCIe lanes)	
GPU Options	Up to two double-width 300 W, or three single-width 150 W, or six single-width 75 W accelerators	
Ports	<p>Front Ports</p> <ul style="list-style-type: none"> <li>1 x Dedicated iDRAC Direct micro-USB</li> <li>1 x USB 2.0</li> <li>1 x VGA</li> </ul> <p>Internal Ports</p> <ul style="list-style-type: none"> <li>1 x USB 3.0</li> </ul>	<p>Rear Ports</p> <ul style="list-style-type: none"> <li>1 x USB 2.0</li> <li>1 x Serial (optional)</li> <li>1 x USB 3.0</li> <li>2 x RJ-45</li> <li>1 x VGA (optional for liquid cooling configuration)</li> </ul>
PCIe	Up to 8 x PCIe Gen4 slots (up to 6 x16) with support for SNAP I/O modules	

Feature	Technical Specifications
Operating System and Hypervisors	<ul style="list-style-type: none"> <li>• Canonical Ubuntu Server LTS</li> <li>• Citrix Hypervisor</li> <li>• Microsoft Windows Server with Hyper-V</li> <li>• Red Hat Enterprise Linux</li> <li>• SUSE Linux Enterprise Server</li> <li>• VMware ESXi</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 Processor

Processor	Clock Speed (Ghz)	Cache (M)	UPI (GT/s)	Cores	Threads	Turbo	Memory Speed (MT/s)	Memory Capacity	Optane Memory Capable	TDP
8380	2.3	60	11.2	40	80	Turbo	3200	6TB	Y	270W
8368Q	2.6	57	11.2	38	76	Turbo	3200	6TB	Y	270W
8368	2.4	57	11.2	38	76	Turbo	3200	6TB	Y	270W
8362	2.8	48	11.2	32	64	Turbo	3200	6TB	Y	265W
8360Y	2.4	54	11.2	36	72	Turbo	3200	6TB	Y	250W
8358	2.6	48	11.2	32	64	Turbo	3200	6TB	Y	250W

## Supported Processor

Processor	Clock Speed (Ghz)	Cache (M)	UPI (GT/s)	Cores	Threads	Turbo	Memory Speed (MT/s)	Memory Capacity	Optane Memory Capable	TDP
8358P	2.6	48	11.2	32	64	Turbo	3200	6TB	Y	240W
8352Y	2.2	48	11.2	32	64	Turbo	3200	6TB	Y	205W
8352V	2.1	54	11.2	36	72	Turbo	2933	6TB	Y	195W
8352S	2.2	48	11.2	32	64	Turbo	3200	6TB	Y	205W
8352M	2.3	48	11.2	32	64	Turbo	3200	6TB	Y	185W
8351N	2.4	54	11.2	36	72	Turbo	2933	6TB	Y	205W
6354	3	39	11.2	18	36	Turbo	3200	6TB	Y	235W
6348	2.6	42	11.2	28	56	Turbo	3200	6TB	Y	235W
6346	3.1	36	11.2	16	32	Turbo	3200	6TB	Y	205W
6342	2.8	36	11.2	24	48	Turbo	3200	6TB	Y	230W
6338	2	36	11.2	32	64	Turbo	3200	6TB	Y	205W
6338N	2.2	48	11.2	32	64	Turbo	3200	6TB	Y	185W
6336Y	2.4	36	11.2	24	48	Turbo	2666	6TB	Y	185W
6334	3.6	18	11.2	8	16	Turbo	3200	6TB	Y	165W
6330	2	42	11.2	28	56	Turbo	2933	6TB	Y	205W
6330N	2.2	42	11.2	28	56	Turbo	3200	6TB	Y	165W
6326	2.9	24	11.2	16	32	Turbo	3200	6TB	Y	185W
6314U	2.3	48	11.2	32	64	Turbo	2666	6TB	Y	205W
6312U	2.4	36	11.2	24	48	Turbo	3200	6TB	Y	185W
5320	2.2	39	11.2	26	52	Turbo	2933	6TB	Y	185W
5318Y	2.1	36	11.2	24	48	Turbo	2933	6TB	Y	165W
5317	3	18	11.2	12	24	Turbo	2933	6TB	Y	150W

Proc	Clock Speed (Ghz)	Cache (M)	UPI (GT/s)	Cores	Threads	Turbo	Memory Speed (MT/s)	Memory Capacity	Optane Memory Capable	TDP
5315Y	3.2	12	11.2	8	16	Turbo	2933	6TB	Y	140 W
4316	2.3	30	10.4	20	40	Turbo	2666	6TB	N	150 W
4314	2.4	24	10.4	16	32	Turbo	2666	6TB	Y	135 W
4310	2.1	18	10.4	12	24	Turbo	2666	6TB	N	120 W
4309Y	2.8	12	10.4	8	16	Turbo	2666	6TB	N	105 W



**NOTE:**

- 8368Q\* requires liquid cooling
- 6312U and 6314U\*\* are supported only in 1S configurations

