



# Wavesys Recording Monitoring Appliances

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**IP-03 Series**

**The Power to do More**

# IP-03R-MNVR8B2U-D4W

Wavesys Rack design appliances have the flexibility to be used as a Standalone Monitoring Station or as a cost effective 8 Bay Single Server as Recording and Monitoring station featuring outstanding performance, scalability, improved CPU cooling and built-in AI responsiveness.

Powered by latest Intel Xeon 4th Generation processors, the machine is world's fastest workstation for single-threaded performance\* with blistering power and unlimited Turbo duration

Accelerated performance with dual CPU system with 1400/2400W PSU professional graphics from NVIDIA or AMD Radeon™ W6400 LP/FH with option to use dual graphic cards

Increased Internal Storage capacity with Up to 8x 3.5-inch duty cycle SAS/SATA (HDD/SSD) max 96 TB storage for high-speed applications like video surveillance

Wide ranging memory options of upto 8 TB ( 256 GB x 32 ) for high compute workstation applications

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.



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

Resilient Architecture with reliable ECC memory technology, is EPEAT registered and MIL-STD tested for reliability

Designed to add multiple add on cards for Quad and more multiplexed displays .Support for 4K and 8K monitors with a wide variety of ports and slots

Onsite Support with Standard 3 Year Warranty with extension upto 5 and 7 Years on special request and additional costs.

Feature	Technical Specifications
MODEL NUMBER <sup>1</sup>	IP-03R-MNVR8B2U-D4W
CHIPSET	Intel C741
PROCESSOR OPTIONS <sup>1</sup>	<p>Intel® Xeon® Silver 4410Y, 30MB cache, 12 cores, 24 threads, 2.0GHz to 3.9GHz Turbo, 150W  Intel® Xeon® Gold 5415+, 23MB cache, 8 cores, 16 threads, 2.9GHz to 4.1GHz Turbo, 150W  Intel® Xeon® Silver 4416+, 38MB cache, 20 cores, 40 threads, 2.0GHz to 3.9GHz Turbo, 165W  Intel® Xeon® Gold 5418Y, 45MB Cache, 24 cores, 48 threads, 2.0GHz to 3.8GHz Turbo, 185W  Intel® Xeon® Gold 5420+, 53MB cache, 28 cores, 56 threads, 2.0GHz to 4.1GHz Turbo, 205W  Intel® Xeon® Gold 6430, 60MB cache, 32 cores, 64 threads, 2.1GHz to 3.4GHz Turbo, 270W  Intel® Xeon® Gold 6434, 23MB cache, 8 cores, 16 threads, 3.7 GHz to 4.1GHz Turbo, 195W  Intel® Xeon® Gold 6426Y, 8MB cache, 16 cores, 32 threads, 2.6GHz to 4.0GHz Turbo, 225W  Intel® Xeon® Gold 6442Y, 60MB cache, 24 cores, 48 threads, 2.5GHz to 4.0GHz Turbo, 185W  Intel® Xeon® Gold 6448Y, 60MB cache, 32 cores, 64 threads, 2.1GHz to 4.1GHz Turbo, 225W  Intel® Xeon® Gold 6444Y, 45MB cache, 16 cores, 32 threads, 3.6GHz to 4.0GHz Turbo, 270W  Intel® Xeon® Platinum 8452Y, 68MB cache, 36 cores, 72 threads, 2.0GHz to 3.2GHz Turbo, 300W  Intel® Xeon® Platinum 8460Y, 105MB cache, 40 cores, 80 threads, 2.0GHz to 3.7GHz Turbo, 300W  Intel® Xeon® Platinum 8462Y, 60MB cache, 32 cores, 64 threads, 2.8GHz to 4.1GHz Turbo, 300W  Intel® Xeon® Platinum 8468, 105MB cache, 48 cores, 96 threads, 2.1GHz to 3.8GHz Turbo, 350W  Intel® Xeon® Platinum 8470, 105MB cache, 52 cores, 104 threads, 2.0GHz to 3.8GHz Turbo, 350W  Intel® Xeon® Platinum 8480+, 105MB cache, 56 cores, 112 threads, 2.0GHz to 3.8GHz Turbo, 350W</p>
OPERATING SYSTEM <sup>1</sup>	<p>Windows 11 for Workstations  Ubuntu® 22.04, 64-bit  Red Hat® Linux® 8.6 Enterprise WS</p>
MEMORY OPTIONS <sup>1,2,3</sup>	<p>16GB, 1 x 16GB, DDR5, 4800MHz ECC  32GB, 1 x 32GB, DDR5, 4800MHz ECC  32GB, 2 x 16GB, DDR5, 4800MHz ECC  64GB, 1 x 64GB, DDR5, 4800MHz ECC  64GB, 2 x 32GB, DDR5, 4800MHz ECC  64GB, 4 x 16GB, DDR5, 4800MHz ECC  96GB, 6 x 16GB, DDR5, 4800MHz ECC  128GB, 1 x 128GB, DDR5, 4800MHz ECC  128GB, 2 x 64GB, DDR5, 4800MHz ECC  128GB, 4 x 32GB, DDR5, 4800MHz ECC  128GB, 8 x 16GB, DDR5, 4800MHz ECC  192GB, 6 x 32GB, DDR5, 4800MHz ECC  192GB, 12 x 16GB, DDR5, 4800MHz ECC  256GB, 1 x 256GB, DDR5, 4800MHz, ECC  256GB, 2 x 128GB, DDR5, 4800MHz, ECC  256GB, 4 x 64GB, DDR5, 4800MHz ECC  256GB, 8 x 32GB, DDR5, 4800MHz ECC  256GB, 16 x 16GB, DDR5, 4800MHz ECC  384GB, 6 x 64GB, DDR5, 4800MHz ECC  384GB, 12 x 32GB, DDR5, 4800MHz ECC  384GB, 24 x 16GB, DDR5, 4800MHz ECC  512GB, 2 x 256GB, DDR5, 4800MHz, ECC  512GB, 4 x 128GB, DDR5, 4800MHz, ECC  512GB, 8 x 64GB, DDR5, 4800MHz ECC  512GB, 16 x 32GB, DDR5, 4800MHz ECC  512GB, 32 x 16GB, DDR5, 4800MHz ECC  768GB, 6 x 128GB, DDR5, 4800MHz ECC  768GB, 12 x 64GB, DDR5, 4800MHz ECC  768GB, 24 x 32GB, DDR5, 4800MHz ECC  1 TB 4x 256GB, DDR5, 4800MHz, ECC  1 TB, 8 x 128GB, DDR5, 4800MHz, ECC  1 TB, 16 x 64GB, DDR5, 4800MHz ECC  1 TB, 32 x 32GB, DDR5, 4800MHz ECC  1.5 TB, 6 x 256GB, DDR5, 4800MHz, ECC  1.5 TB, 12 x 128GB, DDR5, 4800MHz ECC  1.5 TB, 24 x 64GB, DDR5, 4800MHz ECC  2 TB 8 x 256GB, DDR5, 4800MHz ECC  2 TB 16 x 128GB, DDR5, 4800MHz ECC  2 TB, 32 x 64GB, DDR5, 4800MHz ECC  3 TB, 12 x 256GB, DDR5, 4800MHz, ECC  3 TB, 24 x 128GB, DDR5, 4800MHz ECC  4 TB, 16 x 256GB, DDR5, 4800MHz ECC  4 TB, 32 x 128GB, DDR5, 4800MHz ECC  6 TB, 24 x 256GB, DDR5, 4800MHz ECC  8 TB, 32 x 256GB, DDR5, 4800MHz ECC</p>
GRAPHICS	<p>Up to 2x Double wide graphics cards in PCIe Gen 5 slots – requires dual CPU system with 1400/2400W PSU</p> <p><b>NVIDIA:</b>  NVIDIA® RTX™ 6000 ADA 48GB GDDR6  NVIDIA® RTX™ A6000, 48GB GDDR6  NVIDIA® RTX™ A5500, 24GB GDDR6  NVIDIA® RTX™ A4500, 20GB GDDR6  NVIDIA® RTX™ A4000, 16GB GDDR6  NVIDIA® RTX™ A2000, 12GB GDDR6  NVIDIA® T1000 LP/FH, 8GB GDDR6  NVIDIA® T400 LP/FH, 4GB GDDR6</p> <p><b>AMD:</b>  AMD Radeon™ W6400 LP/FH, 4GB GDDR6</p>

Feature	Technical Specifications
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MODEL NUMBER <sup>1</sup>	IP-03R-MNVR8B2U-D4W
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STORAGE OPTIONS <sup>15</sup>	Support for up to (8) 2.5" or 3.5" SATA/SAS drives, up to 8" x M.2 NVMe PCIe SSDs PERC H755 motherboard PCIe HW RAID controller required for SAS drive support M.2 NVMe PCIe SSDs Up to 8x 4TB drives on 2x Ultra-Speed Drive Quad x16 PCIe cards. *Requires dual CPU config and graphics card in low profile riser slot
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BOOT DRIVES <sup>15</sup>	Boot from Ultra Speed Drive Quad or Duo PCIe card M.2 2280, 512GB, PCIe NVMe Gen4 x4, SSD, Class 40 M.2 2280, 1TB, PCIe NVMe Gen4 x4, SSD, Class 40 M.2 2280, 2TB, PCIe NVMe Gen4 x4, SSD, Class 40 M.2 2280, 4TB, PCIe NVMe Gen4 x4, SSD, Class 40
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DATA DRIVES <sup>15</sup>	2.5-inch, 600GB, 15,000RPM, SAS, Enterprise HDD 2.5-inch, 1.2TB, 10,000RPM, SAS, Enterprise HDD 2.5-inch, 2.4TB, 10,000RPM, SAS, Enterprise HDD 3.5-inch, 2TB, 7200RPM, SATA, Enterprise HDD 3.5-inch, 4TB, 7200RPM, SATA, Enterprise HDD 3.5-inch, 8TB, 7200RPM, SATA, Enterprise HDD 3.5-inch, 12TB, 7200RPM, SATA, Enterprise HDD 2.5-inch, 1.92TB, MU, SATA, Enterprise SSD
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STORAGE CONTROLLERS	Integrated: 2x Intel chipset 6Gb/s SATA controllers with 4 ports each (total 8) for SATA HDD/SSD. 1 port for optical drive Intel vROC SW SATA RAID 0,1,5,10 supported across 4 SATA ports on 1st controller only. (Maximum 4 drives in RAIDset) Optional Intel vROC Standard SW NVMe RAID 0,1,10 option (motherboard activation key) for M.2 NVMe PCIe SSDs on 1st Ultra-Speed Drive Quad x16 or Duo x8 card (0,1). Optional Intel vROC Premium SW NVMe RAID 0,1,5,10 option (motherboard activation key) for M.2 NVMe PCIe SSDs on 1st Ultra-Speed Drive Quad x16 or Duo x8 card (0,1). Optional PERC H755P SATA/SAS Motherboard Hardware RAID PCIe controller with 8GB cache (battery backup), RAID 0/1/5/10 (no JBOD with SATA drives)
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PRODUCTIVITY SOFTWARE <sup>1</sup>	Microsoft Office Home and Business Commercial Microsoft Office 2021 Professional Commercial
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SECURITY SOFTWARE	McAfee® Small Business Security 30-day free trial McAfee® Small Business Security 12-month subscription McAfee® Small Business Security 36-month subscription Encryption Personal Encryption Enterprise
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ADD-IN CARDS	Ultra-Speed Drive Quad (x16) and Duo (x8) low profile PCIe cards support M.2 NVMe drives with active cooling up to 2 and 4 NVMe drives respectively Dual display (full height and low profile) PCoIP remote workstation PCIe cards Quad display (full height) PCoIP remote workstation PCIe cards Serial port (full height, low profile) PCIe card - single port
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SECURITY OPTIONS	Trusted Platform Module (TPM 2.0); Setup/BIOS Password, I/O Interface Security, lockable top cover and lockable front bezel,  Encryption Enterprise
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WARRANTY <sup>9,10</sup>	3- year Basic warranty with hardware service with on-site/in-home service after remote diagnosis 4- year Basic warranty with hardware service with on-site/in-home service after remote diagnosis 5- year Basic warranty with hardware service with on-site/in-home service after remote diagnosis 3- year ProSupport with Next Business Day on-site service 4- year ProSupport with Next Business Day on-site service 5- year ProSupport with Next Business Day on-site service 3- year ProSupport Plus for Client with Next Business Day on-site service 4- year ProSupport Plus for Client with Next Business Day on-site service 5- year ProSupport Plus for Client with Next Business Day on-site service
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ACCIDENTAL DAMAGE SERVICES	3- year Accidental Damage Service 4- year Accidental Damage Service 5- year Accidental Damage Service
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PORTS SLOTS AND CHASSIS	Front Ports: iDRAC Direct port (1x Micro USB 2.0) USB 2.0 port VGA Port intended for iDRAC use  Rear Ports: USB 2.0 port USB 3.0 Gen1 port iDRAC Enterprise Dedicated Network connector VGA port intended for iDRAC use (2) RJ45 Ethernet ports 1GbE LOM standard and one of three OCP3 NIC cards options in dedicated slot) (4) RJ45 Ethernet ports 1GbE (OCP3 card option) (4) RJ45 Ethernet ports 10GbE (OCP3 card option) (4) 10/25GbE SFP28 ports (OCP3 card option)  Slots: 7 Slots in riser cards with Dual CPUs Single CPU has 1x Gen 4 x16 (FH/FL) slot, 1x Gen 5 x16 (FH/FL) slot, 1x Gen 4 x16 low profile (FL) slot (Reserved primarily for NVMe boot with Ultra-Speed Duo x8 LP PCIe card Dual CPU has above slots plus 1x Gen 5 x16 double width slot, 2x Gen 4 x8 FH/HL slots, 1 Gen 4 x16 low profile (FL) slot Up to 2x dual or single width graphics cards with dual CPUs.
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OPTICAL DRIVE	8x DVD-ROM 9.5mm optical drive 8x DVD+/-RW 9.5mm optical drive
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Feature	Technical Specifications
<p>MODEL NUMBER<sup>1</sup></p> <p>CHASSIS</p>	<p>IP- 03R-MNVR8B2U-D4W</p> <p>U.S. Height: 3.39in Width (front): 18.98in. Width (rear): 17.08in. Depth with bezel: 30.4in.</p> <p>Weight: Maximum: 65.36lbs. Minimum: 46.25lbs.</p> <p>Rest of the world Height: 86.8mm Width (front): 482mm Width (rear): 434mm Depth with bezel: 772.13mm</p> <p>Weight: Maximum: 29.64kg Minimum: 20.98kg</p>
<p>POWER SUPPLIES</p>	<p>One or two redundant, hot pluggable 800W (Platinum), 1100W (Titanium) and 1400W (120V) / 2400W (240V) (Platinum) power supplies.</p> <p>Note: Dual non-redundant PSUs are often needed to provide sufficient power for richer CPU/GPU configurations at a given PSU power level. The 1400W/2400W PSUs have C19 power cords which require 20A @120V or 240V AC circuits.</p>
<p>NETWORK CARDS</p>	<p>Entry: Broadcom 5720 Dual Port 2x 1GbE LOM default or OCP3 NIC options OCP 3.0 NIC Options – consume OCP 3.0 NIC slot: Intel i350 Quad Port 1GbE BASE-T, OCP NIC 3.0 Intel X710-T4L Quad Port 10GbE BASE-T, OCP NIC 3.0 Intel E810-XXVDA4 Quad Port 10/25GbE SFP28 Adapter, OCP NIC 3.0 Dedicated Broadcom<sup>®</sup> BCM54210 Ethernet LAN 10/100/1000 for iDRAC9 controller use with System Management tool suite</p>
<p>Optional Application Software Preloaded at Factory</p>	<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>

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