



Wavesys Monitoring Appliances

IP-03 Series

The Power to do More

IP-03T-MNVR3B4U-D12W

Wavesys Tower design appliances have the flexibility to be used as a Standalone Monitoring Station or as a cost effective 3 Bay Single Server as Recording and Monitoring station featuring outstanding performance, scalability, improved CPU cooling and built-in AI responsiveness.

Powered by latest Intel Core I2th & I3th Generation processors, the machine is world's fastest workstation for single-threaded performance* with blistering power and unlimited Turbo duration

Accelerated performance with support for up to 450 W professional graphics from NVIDIA or AMD with option to use dual graphic cards

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

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 SPECIFICATION
MODEL NUMBER	IP-03T-MNVR3B4U-D12W
PROCESSOR ¹	<p>13th Generation Intel® Core™ i9-13900K vPro®, 36 MB cache, 24 cores (8P + 16E), 3.0GHz to 5.8GHz, 125W</p> <p>13th Generation Intel® Core™ i9-13900 vPro®, 36 MB cache, 24 cores (8P + 16E), 2.0GHz to 5.6GHz, 65W</p> <p>13th Generation Intel® Core™ i7-13700K vPro®, 30 MB cache, 16 cores (8P + 8E), 3.4GHz to 5.4GHz, 125W</p> <p>13th Generation Intel® Core™ i7-13700 vPro®, 30 MB cache, 16 cores (8P + 8E), 2.1GHz to 5.2GHz, 65W</p> <p>13th Generation Intel® Core™ i5-13600K vPro®, 24 MB cache, 14 cores (6P + 8E), 3.5GHz to 5.1GHz, 125W</p> <p>13th Generation Intel® Core™ i5-13600 vPro®, 24 MB cache, 14 cores (6P + 8E), 2.7GHz to 5.0GHz, 65W</p> <p>13th Generation Intel® Core™ i5-13500 vPro®, 24 MB cache, 14 cores (6P + 8E), 2.5GHz to 4.8GHz, 65W</p> <p>13th Generation Intel® Core™ i5-13400, 20 MB cache, 10 cores (6P + 4E), 2.5GHz to 4.6GHz, 65W</p> <p>13th Generation Intel® Core™ i3-13100, 12 MB cache, 4 cores (4P + 0E), 3.4 GHz to 4.5GHz, 60W</p> <p>12th Generation Intel® Core™ i9-12900K vPro®, 30MB cache, 16 cores (8P+8E), 3.2GHz to 5.2GHz, 125W</p> <p>12th Generation Intel® Core™ i9-12900 vPro®, 30MB cache, 16 cores (8P+8E), 2.4GHz to 5.1GHz, 65W</p> <p>12th Generation Intel® Core™ i7-12700K vPro®, 25MB cache, 12 cores (8P+4E), 3.6GHz to 5.0GHz, 125W</p> <p>12th Generation Intel® Core™ i7-12700 vPro®, 25MB cache, 12 cores (8P+4E), 2.1GHz to 4.9GHz, 65W</p> <p>12th Generation Intel® Core™ i5-12600K vPro®, 20MB cache, 10 cores (6P+4E), 3.7GHz to 4.9GHz, 125W</p> <p>12th Generation Intel® Core™ i5-12600 vPro®, 18MB cache, 6 cores (6P+0E), 3.3GHz to 4.8GHz, 65W</p> <p>12th Generation Intel® Core™ i5-12500 vPro®, 18MB cache, 6 cores (6P+0E), 3.0GHz to 4.6GHz, 65W</p> <p>12th Generation Intel® Core™ i3-12100 vPro®, 12MB cache, 4 cores (4P+0E), 3.3GHz to 4.3GHz, 60W^{27,28}</p> <p>Note: All processors come with Intel® Integrated Graphics Processor Cooling options^{29,30}</p> <ol style="list-style-type: none"> 1. Standard CPU Air Cooler (for up to 65W CPUs) 2. Advanced CPU Air Cooler (for all CPUs) 3. Premium CPU Liquid Cooler (for all CPUs)
OPERATING SYSTEM ¹	<p>Windows 11 Home, 64-bit</p> <p>Windows 11 Pro, 64-bit</p> <p>Windows 10 Home, 64-bit</p> <p>Windows 10 Pro, 64-bit</p> <p>Windows 10 IoT 2021 LTSC (OEM Only)³⁵</p> <p>Ubuntu® Linux® 22.04 LTS, 64-bit</p> <p>Kylin V 10 SP1</p> <p>Red Hat® Enterprise Linux® 8.6 (12th Gen Intel processors only)</p>
1,2,3 MEMORY	<p>4 DIMM Slots: Up to 128GB or up to 4400MHz ECC and Non-ECC DDR5 Maximum speed: 4400MHz</p> <p>Maximum capacity: 128GB</p> <p>Maximum memory speed varies by the following configuration on each channel. If the 2 DIMM configuration is not symmetrical, the maximum speed may drop.</p> <p>4400MHz: 1 DIMM-1R/2R</p> <p>4000MHz: 2 DIMM-1R</p> <p>3600MHz: 2 DIMM-2R</p> <p>8GB, 1 x 8GB, DDR5, 4400MHz, Non-ECC</p> <p>16GB, 2 x 8GB, DDR5, 4400MHz, Non-ECC, dual- channel</p> <p>32GB, 2 x 16GB, DDR5, 4400MHz, Non-ECC, dual- channel</p> <p>64GB, 2 x 32GB, DDR5, 4400MHz, Non-ECC, dual- channel</p> <p>32GB, 4 x 8GB, DDR5, 4000MHz, Non-ECC, dual-channel</p> <p>64GB, 4 x 16GB, DDR5, 4000MHz, Non-ECC, dual- channel</p> <p>128GB, 4 x 32GB, DDR5, 3600MHz, Non-ECC, dual- channel</p> <p>16GB, 1 x 16GB, DDR5, 4400MHz, ECC</p> <p>32GB, 2 x 16GB, DDR5, 4400MHz, ECC, dual-channel</p> <p>64GB, 2 x 32GB, DDR5, 4400MHz, ECC, dual-channel</p> <p>64GB 4 x 16GB, DDR5, 4000MHz, ECC, dual-channel¹</p> <p>28GB 4 x 32GB, DDR5, 3600MHz, ECC, dual-channel³¹</p>

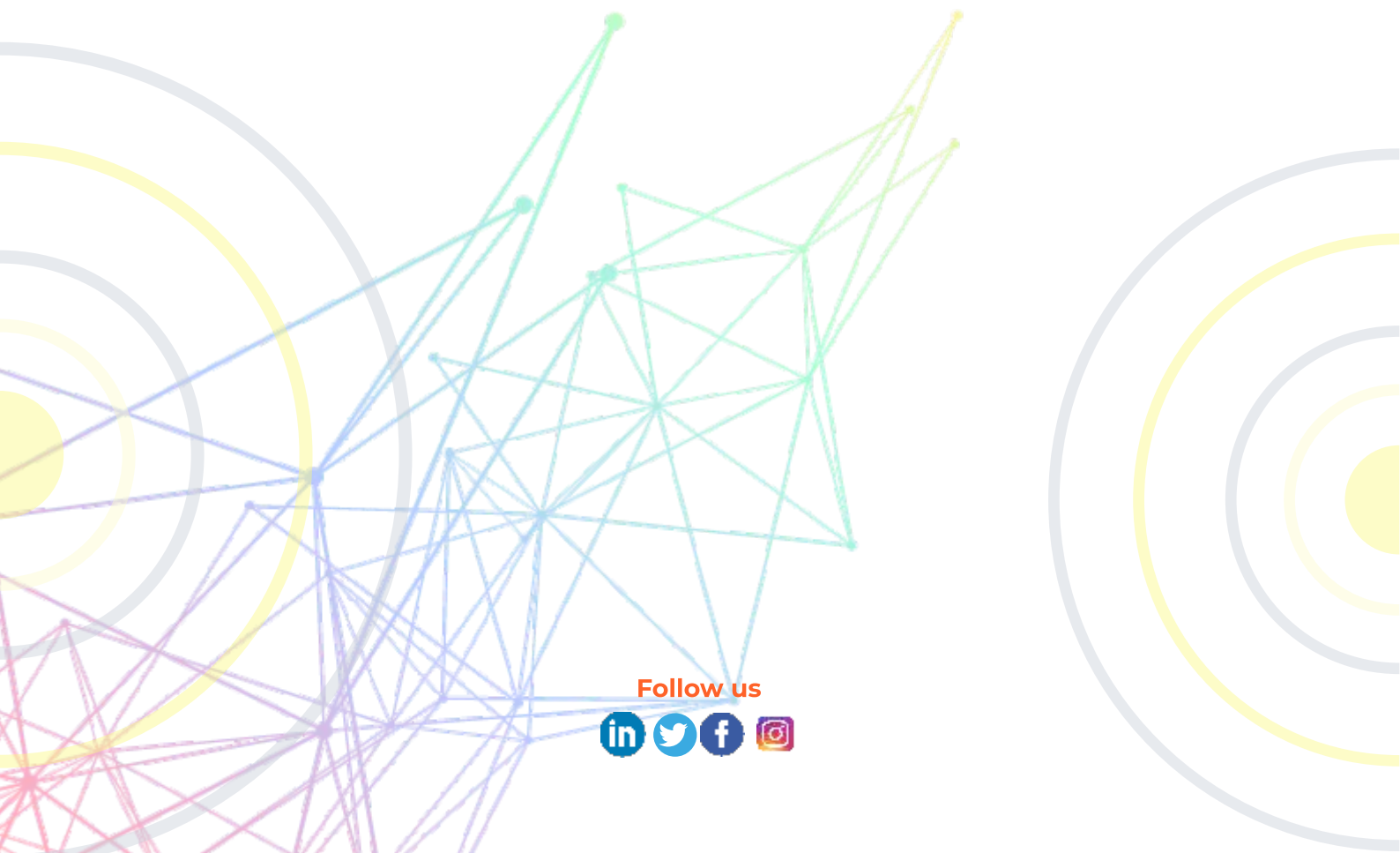
STORAGE ^{15,19}	<p>Support for up to (3) M.2 2280 PCIe NVMe SSD on motherboard and up to (3) 3.5-inch SATA^{33,34} or (4) 2.5-inch SATA HDDs</p> <p>Front accessible 2.5-inch SATA or 3.5-inch SATA HDD (with lockable door and key) available with specific storage configurations</p> <p>Support for Intel® Ready Mode™ technology</p> <p>Support for up to (1) additional PCIe SSD on Dell Precision Ultra-Speed drive with active cooling</p> <p>RAID 0/1/5/10 available</p>
PRIMARY HARD DISK DRIVE ^{1,5}	<p>M.2 2230, 256GB, PCIe NVMe® Class 35 SSD</p> <p>M.2 2280, 512GB, PCIe NVMe® Class 40 SSD</p> <p>M.2 2280, 1TB, PCIe NVMe® Class 40 SSD</p> <p>M.2 2280, 2TB, PCIe NVMe® Class 40 SSD</p> <p>M.2 2280, 4TB, PCIe NVMe® Class 40 SSD</p> <p>M.2 2280, 512GB, PCIe NVMe® SSD, Self-Encrypting drive</p> <p>M.2 2280, 1TB, PCIe NVMe® SSD, Self-Encrypting drive</p> <p>2.5-inch, 500GB, 7200RPM, SATA, HDD</p> <p>2.5-inch, 1TB, 7200RPM, SATA, HDD</p> <p>3.5-inch, 1TB, 7200RPM, SATA, HDD</p> <p>3.5-inch, 2TB, 7200RPM, SATA, HDD</p> <p>3.5-inch, 4TB, 5400RPM, SATA, HDD</p> <p>3.5-inch, 4TB, 7200RPM, SATA, Enterprise HDD³²</p> <p>3.5-inch, 8TB, 7200RPM, SATA, Enterprise HDD³²</p>
GRAPHIC	<p>One PCI Express x16 Gen5 slot supporting graphics cards up to 450W (Total power available for Discrete Graphics cards)</p> <p>Some cards are available in Dual configurations</p> <p>Intel® UHD Graphics 730 for 12th Generation Core i3, 13th generation core i3 and core i5-13400 processors</p> <p>Intel® UHD Graphics 770 for 12th generation core i5/i7/i9, 13th generation core i7/i9 and i5-13500, i5-13600, i5-13600K processors</p> <p>NVIDIA® RTX A6000, 48GB, GDDR6</p> <p>NVIDIA® RTX A5500, 24GB, GDDR6</p> <p>NVIDIA® RTX A5000, 24GB, GDDR6</p> <p>NVIDIA® RTX A4500, 20GB, GDDR6</p> <p>NVIDIA® RTX A4000, 16GB, GDDR6</p> <p>NVIDIA® RTX A2000, 12GB, GDDR6</p> <p>NVIDIA® T1000, 8GB, GDDR6</p> <p>NVIDIA® T400, 4GB, GDDR6</p> <p>AMD Radeon™ Pro W6800, 32GB, GDDR6</p> <p>AMD Radeon™ Pro RX6900XT, 16GB, GDDR6</p> <p>AMD Radeon™ Pro W6600, 8GB, GDDR6</p> <p>AMD Radeon™ Pro W6400, 4GB, GDDR6</p>
CASE COLOR	Standard Black



FEATURE	TECHNICAL SPECIFICATION
MODEL NUMBER	IP-03T-MNVR3B4U-D12W
PRODUCTIVITY SW ¹	Microsoft Office 30 Day Trial Microsoft Office Home and Business 2021 Microsoft Office Professional 2021
SECURITY SW	McAfee® Small Business Security 30 Day Free Trial McAfee® Small Business Security 12 month subscription McAfee® Small Business Security 36 month Subscription Intel Guard Technologies & Secure Key: Software Guard (SGX), Data Guard (vPro only), Boot Guard, BIOS Guard (Core CPU's only), OS Guard (Core CPU's only) and Secure Key (i5 or greater only) Intel Runtime BIOS Resilience (Copper Point) with attestation via Nifty Rock + Intel TXT Support of Absolute Persistent Module BIOS agent v2 OpenXT validation required SafeGuard and Response, powered by VMware Carbon Black and Secureworks Next Generation Antivirus (NGAV) Endpoint Detection and Response (EDR) Threat Detection and Response (TDR) Managed Endpoint Detection and Response Incident Management Retainer Emergency Incident Response SafeData
WARRANTY ^{8,9}	1 years Basic Warranty with Hardware Service on site service after remote diagnosis 2 years Basic Warranty Extension 3 years Basic Warranty Extension 4 years Basic Warranty Extension 5 years Basic Warranty Extension 1 years ProSupport with Next Business Day on-site service 2 years ProSupport with Next Business Day on-site service 3 years ProSupport with Next Business Day on - site service 4 years ProSupport with Next Business Day-on site service 5 years ProSupport with Next Business Day on -site service 1 years ProSupport Plus for Client with Next Business Day on-site service 2 years ProSupport Plus for Client with Next Business Day on-site service 3 years ProSupport Plus for Client with Next Business Day on-site service 4 years ProSupport Plus for Client with Next Business Day on - site service 5 years ProSupport Plus for Client with Next Business Day on-site service
ACCIDENTAL DAMAGE SERVICES	1 year Accidental Damage Service 2 year Accidental Damage Service 3 year Accidental Damage Service 4 year Accidental Damage Service 5 year Accidental Damage Service
KEYBOARD ¹	Yes
PORTS	Front: USB 3.2 Gen 1 (5 Gbps) port USB 3.2 Gen 1 (5 Gbps) port with PowerShare USB 3.2 Gen 2 (10 Gbps) Type-C® port USB 3.2 Gen 2x2 (20 Gbps) Type-C® port with PowerShare Universal Audio port Rear: (2) DisplayPort 1.4a HBR2 ports (2) USB 2.0 (480 Mbps) ports with SmartPower RJ45 (1 GbE) Ethernet port (2) USB 3.2 Gen 2 (10 Gbps) ports (2) USB 3.2 Gen 2 (10 Gbps) Type-C® ports Audio line-out Optional Port (VGA, HDMI 2.0, DP++ 1.4a HB3, USB 3.2 Gen 2 (10 Gbps) Type-C® with DP-Alt mode) RJ45 (2.5 GbE) Ethernet port (optional) Full-height Gen5 PCIe x16 slot Full-height Gen3 PCIe x4 slot Full-height G en 4 PCIe x4 slot M.2 2230 slot for WiFi and Bluetooth card (2) M.2 2230/2280 PCIe Gen4 slots for NVMe SSDs M.2 2280 PCIe Gen3 slot for NVMe SSD (5) SATA slots for 2.5/3.5 inch HDD/ODD

	<p>8x DVD-ROM, 9.5 mm</p> <p>8x DVD+/-RW, 9.5 mm</p> <p>Integrated Smart Card Reader with Contact and Contactless Support (CAC/PIV)</p>
ADD IN CARD	<p>Serial Port Card</p> <p>Thunderbolt 4 PCIe Card</p> <p>Zoom Ultra-speed Card WLAN External Antenna AIC</p> <p>USB 4.0 Type-C PCIe AIC card</p> <p>Intel Gigabit Ethernet 2.5GbE NIC PCIe Card</p>
DIMENSIONS	<p>US:</p> <p>Height: 14.52in. (369.00mm)</p> <p>Width: 6.81in. (173.00mm)</p> <p>Depth: 16.53in. (420.00mm)</p> <p>Weight: 18.739lbs (8.5kg)</p> <p>Rest of the world:</p> <p>Height: 369.00mm (14.52in.)</p> <p>Width: 173.00mm (6.81in.)</p> <p>Depth: 420.00mm (16.53in.)</p> <p>Weight: 8.5kg (18.739lbs)</p>
AUDIO N SPEAKERS ¹ CHASSIS	<p>Stereo speakers with Realtek ALC3246-CG Audio Controller Internal speakers (optional)</p> <p>Performance Tower</p>
WIRELESS	<p>Qualcomm® WCN6856-DBS, 2x2MIMO, 3571Mbps, 2.4Ghz/5Ghz/6Ghz, Wi-Fi 6E (Wi-Fi 802.11ax), Bluetooth 5.2 (Coming post launch) Intel® AX211, 2x2MIMO, 2400Mbps, 2.4Ghz/5Ghz/6Ghz, Wi-Fi 6E (Wi-Fi 802.11ax), Bluetooth 5.2</p>
POWER	<p>300W internal power supply unit, 92% Efficient PSU, 80 Plus Platinum</p> <p>500W internal power supply unit, 92% Efficient PSU, 80 Plus Platinum</p> <p>1000W internal power supply unit, 92% Efficient PSU, 80 Plus Platinum</p>
CHIPSET	<p>Intel® W680</p>
HARDWARE SECURITY	<p>Security-cable slot</p> <p>Padlock loop</p> <p>Lockable Cable Cover (optional)</p> <p>Lockable Bezel and Key for Front Accessible</p> <p>SATA HDD (optional)</p> <p>Chassis intrusion switch</p> <p>SafelD including Trusted Platform Module (TPM) 2.0 Smart card keyboard (FIPS)</p> <p>Microsoft 10 Device Guard and Credential Guard (Enterprise SKU)</p> <p>Microsoft Windows Bitlocker</p> <p>Local hard drive data wipe through BIOS (Secure Erase)</p> <p>Self-encrypting storage drives (Opal, FIPS)</p> <p>Trusted Platform Module TPM 2.0</p> <p>Intel Secure Boot Intel Authenticate</p> <p>SafeBIOS: includes Dell Off-host BIOS Verification, BIOS Resilience, BIOS Recovery, and additional BIOS Controls</p>

<p>RECOMMENDED ACCESSORIES</p>	<p>Mouse : 3Dconnexion SpaceMouse Wireless - 3DX-700066</p> <p>Audio and Speakers : Slim Soundbar - SB521A Pro Wireless ANC Headset - WL5024</p> <p>Display: 27 Monitor - P2723D</p> <p>Keyboards: Pro Wireless Keyboard and Mouse - KM5221W</p> <p>Stands and Mounts: Single Monitor Arm - MSA20</p> <p>Webcam: UltraSharp Webcam WB7022 Webcam WB3023</p>
<p>SYSTEM MANAGEMENT</p>	<p>Client Command Suite for In-Band systems management Intel® vPro™ for Out-of-Band systems management</p>
<p>CONFIGURATION SERVICES</p>	<p>Factory image load BIOS customization Hardware customization Asset Tagging and Reporting</p>
<p>Optional Application Software Preloaded at Factory</p>	<ul style="list-style-type: none"> • Video Management software-WVMS • Video Content Analytics-WVCA • Face recognition Software- WVMS-FR • License Plate Recognition Software-WVMS-LPR • WVCA- Forensic search Software • Videowall



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