



Wavesys Recording Monitoring Appliances

IP-03 Series

The Power to do More

IP-03T-MNVR1B3U-SFF

Wavesys Mini Tower design appliances have the flexibility to be used as a Standalone Monitoring Station or as a cost effective 1 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 Ultra Generation processors, the machine is world's fastest workstation for single-threaded performance* with blistering power and unlimited Turbo duration Accelerated performance with Next-level professional graphics support for professional graphics from NVIDIA or AMD .

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-MNVRIB3U-SFF

PROCESSOR ¹	Intel® Core™ Ultra 5 235 (24 MB cache, 14 cores, 14 threads, 3.4 GHz to 5.0 GHz, 65W) Intel® Core™ Ultra 5 245 (24 MB cache, 14 cores, 14 threads, 3.5 GHz to 5.1 GHz, 65W) Intel® Core™ Ultra 5 245K (24 MB cache, 14 cores, 14 threads, 4.2 GHz to 5.2 GHz, 125W) Intel® Core™ Ultra 7 265 (30 MB cache, 20 cores, 20 threads, 2.4 GHz to 5.3 GHz, 65W) Intel® Core™ Ultra 7 265K (30 MB cache, 20 cores, 20 threads, 3.9 GHz to 5.5 GHz, 125W) Intel® Core™ Ultra 9 285 (36 MB cache, 24 cores, 24 threads, 2.5 GHz to 5.6 GHz, 65W) Intel® Core™ Ultra 9 285K (36 MB cache, 24 cores, 24 threads, 3.7 GHz to 5.7 GHz, 125W)
OPERATING SYSTEM ¹	Windows 11 Home Windows 11 Pro Windows 11 Pro, National Academic Windows 11 Enterprise Ubuntu Linux 24.04 LTS
MEMORY ^{1,2,3}	8 GB: 1 x 8 GB, DDR5, 5600 MT/s, Non-ECC 16 GB: 1 x 16 GB, DDR5, 5600 MT/s, Non-ECC 16 GB: 2 x 8 GB, DDR5, 5600 MT/s, Non-ECC 32 GB: 1 x 32 GB, DDR5, 5600 MT/s, Non-ECC 32 GB: 2 x 16 GB, DDR5, 5600 MT/s, Non-ECC 32 GB: 4 x 8 GB, DDR5, 4800 MT/s, Non-ECC 64 GB: 4 x 16 GB, DDR5, 4800 MT/s, Non-ECC 64 GB: 2 x 32 GB, DDR5, 5600 MT/s, Non-ECC 128 GB: 4 x 32 GB, DDR5, 4400 MT/s, Non-ECC 16 GB: 1 x 16 GB, DDR5, 5600 MT/s, ECC 32 GB: 1 x 32 GB, DDR5, 5600 MT/s, ECC 32 GB: 2 x 16 GB, DDR5, 5600 MT/s, ECC 64 GB: 4 x 16 GB, DDR5, 4800 MT/s, ECC 64 GB: 2 x 32 GB, DDR5, 5600 MT/s, ECC 128 GB: 4 x 32 GB, DDR5, 4400 MT/s, ECC
PRIMARY HARD DISK DRIVE ^{1,5}	Solid-state drives 256 GB, M.2 2230, PCIe NVMe Gen4, SSD, Class 35 512 GB, M.2 2230, PCIe NVMe Gen4, SSD, Class 35 512 GB, M.2 2280, PCIe NVMe Gen4 x4, SSD, Self-Encrypting Opal 2.0, Class 40 1 TB, M.2 2280, PCIe NVMe Gen4 x4, SSD, Self-Encrypting Opal 2.0, Class 40 2 TB, M.2 2280, PCIe NVMe Gen4 x4, SSD, Self-Encrypting Opal 2.0, Class 40 4 TB, M.2 2280, PCIe NVMe Gen4 x4, SSD, Self-Encrypting Opal 2.0, Class 40 Hard drives 4 TB, 3.5-inch, 5400 RPM, SATA, HDD 2 TB, 3.5-inch, 7200 RPM, SATA, HDD 4 TB, 3.5-inch, 7200 RPM, Enterprise HDD 8 TB, 3.5-inch, 7200 RPM, Enterprise HDD
VIDEO CARD	NVIDIA® RTX™ A400, 4 GB GDDR6 NVIDIA® RTX™ A1000, 8 GB GDDR6 NVIDIA® RTX™ 2000 Ada, 16 GB GDDR6 NVIDIA® RTX™ 4000 SFF Ada, 20 GB GDDR6
CASE COLOR	Standard Black Resin
DISPLAY	N/A

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TECHNICAL SPECIFICATION

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PRODUCTIVITY ^{SW}	Optimizer/UUE Pair Trusted Device Command Update Premier Color Intel Unison SupportAssist Support Assist OS Recovery (Excalibur)
SECURITY SW	Data Protection - Endpoint Security Suite (DDP ESS) & Endpoint Security Suite Enterprise (DDP ESS-E) Data Protection - SW Encryption (DDPE) McAfee Business Protection SafeGuard and Response CrowdStrike, VMware Carbon Black, Secureworks Intel Guard Technologies and Secure Key – Intel Device Protection with Platform Trust Software Guard (SGX) Memory Encryption Data Guard (vPro only) Boot Guard BIOS Guard (Core CPUs only) OS Guard (Core CPUs only) Secure Key (i5 or greater only) Microsoft I/O Device Guard & Credential Guard (Enterprise SKU) Microsoft Windows Bitlocker Intel Runtime BIOS Resilience (Copper Point) with attestation using Nifty Rock + Intel TXT Support of Absolute Persistent Module BIOS agent v2
WARRANTY ^{8,9}	3Y basic warranty with on-site service after remote diagnostics 4Y basic warranty extension 5Y basic warranty extension 1Y ProSupport with Next Business Day on-site service 2Y ProSupport with Next Business Day on-site service 3Y ProSupport with Next Business Day on-site service 4Y ProSupport with Next Business Day on-site service 5Y ProSupport with Next Business Day on-site service 1Y ProSupport Plus for Client with Next Business Day on-site service 2Y ProSupport Plus for Client with Next Business Day on-site service 3Y ProSupport Plus for Client with Next Business Day on-site service 4Y ProSupport Plus for Client with Next Business Day on-site service 5Y 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 ^I	Collaboration Keyboard and Mouse - KM900
PORTS	Front: 1 USB 3.2 Gen 2 (10Gbps) port 1 USB 3.2 Gen 2x2 Type-C® (20Gbps) port 1 USB 2.0 (480Mbps) with PowerShare port 1 USB 2.0 (480Mbps) ports 1 Global headset jack Rear: 1 USB 3.2 Gen 2 Type-C® (10Gbps) port 2 USB 2.0 (480Mbps) with PowerShare port 3 DisplayPort™ 1.4a (HBR3 support) ports

	- I Optional port (VGA, HDMI 2.1 FRL, DisplayPort™ 2.1 UHBR20, USB 3.2 Gen 2 (10Gbps), USB 3.2 Gen 2 (10Gbps) Type-C® with DisplayPort™ Alt Mode port, Thunderbolt™ 4 port, Type-C® Data only Gen 2x1 (10Gbps) port, LC Fiber optic port) - I Legacy serial port (optional) - I RJ45 (5GbE) Ethernet port (optional)
OPTICAL DRIVE OPTIONS	8x DVD-ROM, 9.5 mm 8x DVD+/-RW, 9.5 mm
SLOTS	- I SD-card 4.0 slot (optional) - I half-height Gen4 PCIe x16 slot I half-height Gen3 PCIe x4 slot - I half-height Gen3 PCIe x1 slot 2 SATA 3.0 slots for 3.5-inch HDD and slim optical drive I M.2 2230 slot for Wi-Fi and Bluetooth combo card - I M.2 2230/2280 slots for solid-state drive - I M.2 2280+2230 (without bracket) slot for solid-state drive - I M.2 2230 slot for solid-state drive
DIMENSIONS	US Height: 11.95 in. (303.5 mm) Width: 3.74 in. (95 mm) Depth: 11.53 in. (293 mm) Weight (maximum): 13.47 lbs. (6.11 kg) Weight (minimum): 8.75 lbs. (3.97 kg) Rest of the world Height: 303.5 mm (11.95 in.) Width: 95 mm (3.74 in.) Depth: 293 mm (11.53 in.) Weight (maximum): 6.11 kg (13.47 lbs.) Weight (minimum): 3.97 kg (8.75 lbs.)
CAMERA	N/A
AUDIO AND SPEAKERS ¹	Realtek Audio Controller, ALC3204
CHASSIS	NA
WIRELESS	- Intel® BE200 Wi-Fi 7, 2x2, Wi-Fi 802.11be, MIMO, Bluetooth 5.4 wireless card - Qualcomm® FastConnect 7800, 2x2 MIMO, 5,760 Mbps, 2.4/5/6 GHz, Wi-Fi 7 (Wi-Fi 802.11be) DBS, and Bluetooth 5.4 wireless card
PRIMARY BATTERY	NA
POWER	260 W internal power supply unit (80PLUS Bronze Certified) 360 W internal power supply unit (80PLUS Platinum Certified)
CHIPSET	Intel® W 880
HARDWARE SECURITY	- Kensington security-cable slot Padlock rings - Lockable port cover Chassis intrusion switch Contact card reader Data port disablement Fingerprint reader - DDPE UEFI Preboot Authentication (PBA) solution for Windows 8 and greater TPM 2.0 - FW TPM (Discrete TPM Disabled) for China and Select Global customers Intel Secure Boot (TXT + TPM) - BIOS password update via (Dell Command Configure) - Intel's Identity Protection (IPT) - Intel Authenticate

RECOMMENDED ACCESSORIES	Mouse: Pro Premium Collaboration Keyboard and Mouse - KM900 Audio Headsets: Slim Soundbar - SB521A Pro Plus Wireless ANC Headset - WL5024 Speakerphone - SP3022 Display: Pro 27 Plus Monitor - P2725H Keyboards: Pro Plus Keyboard and Mouse - KM7321W Stands: Pro Small All-In-One Stand - OSS26 Webcam: Pro Webcam - WB5023
SYSTEM MANAGEMENT	vPro™ (iAMT 14.x) or greater over wireless Intel® Standard Manageability (ISM) non-vPro™ Intel® Endpoint Management Assistant No OOB Management AMT Enable/Disable through BIOS DASH (through AMT and ISM) OOB Remote BIOS Management and HDD Wipe Command Integration Suite for SCCM (DCIS) Command Intel® vPro™ Out of Band (DCIV) Command Monitor (DCM) CIM configuration features BIOS Configuration through Dell Command Configure and Command PowerShell Provider Command Configure (DCC) AMT Configuration Command Update (CU) Command Deploy (DCD)
CONFIGURATION SERVICES	Factory image load BIOS customization Hardware customization Asset Tagging and Reporting
ADD-IN CARDS	Serial port PCIe low profile card Parallel port PCIe low profile card USB 3.2 Type-C® PCIe card CAC/PIV module
STORAGE CONTROLLER	Intel Rapid Storage Technology Intel Management Engine (ME) 12.0 or later
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

