Honeywell

Thor™ VM3

Vehicle-Mount Computer

Designed for use in the toughest distribution center environments, manufacturing facilities and freight operations, the Thor VM3 is the industry's most capable full-size vehicle-mounted mobile computer, delivering unmatched operational efficiencies.

Disruptions in the supply chain are costly, and those best prepared to adapt to these disruptions have significant competitive advantage. The Thor VM3 computer offers breakthrough features designed to eliminate downtime and maximize capital investment for the enterprise. The Smart Dock feature delivers immediate savings on support and maintenance costs while maximizing efficiency by enabling users to dynamically shift computers as vehicles fail or workload changes. Incorporating a field-replaceable front panel allows enterprises to minimize investments in spare costs by substituting spare front panels for spare computers and saves valuable time and maintenance costs by leveraging in-house support staff to service the most common breaking point.

With the Thor VM3 computer, you gain the compatibility you need to upgrade to next generation Windows® operating systems and the power to take advantage of the latest security and productivity-enhancing features and functionality. The VM3 supports multiple Windows®-based operating systems, so integration and application development are simple as business needs grow. For enterprises currently running on the Windows® CE operating system, the VM3 offers easy implementation and deployment into existing and future IT infrastructures. With memory expandable up to 4GB RAM and 64GB solid state Disk, the VM3 can run powerful programs and applications to maximize efficiencies in activities such as case picking, truck loading, putaway and replenishment- giving workers real time access to information anywhere it is needed.

Whether indoors, outdoors, in a warehouse, on a shop floor, or in intermodal facilities, the Thor VM3 computer enables enterprises to choose the options needed to maximize efficiencies in the most demanding environments. The VM3 supports standard resistive touchscreen or optional capacitive touchscreen for multi-touch applications. A WWAN radio option allows for use in expansive outdoor operations where a WiFi network can't be deployed. The VM3 is built to withstand extreme temperatures and supports an optional screen defroster for cold storage and freezer environments and a brighter outdoor display for outdoor applications. An optional screen blanking feature restricts driver access to the screen when the vehicle is in motion to comply with the highest safety standards.

Features

- **Smart Dock:** Enables mounting and removal in seconds, saving on support and maintenance costs while maximizing efficiency by allowing dynamic shifting of computers as workload changes.
- **User Field-Replaceable Front Panel:** Reduces maintenance cost by allowing users to service the most wear- and abuse-prone components themselves rather than returning them to the depot.
- **Ignition Control:** Eliminates the maintenance expense and lost productivity caused by a dead vehicle battery.
- **Powerful, Versatile Platform:** The Intel® x86 architecture and Dual Core 1.5GHz processor enable superior performance of data-intensive applications. Plus, the Thor VM3 is Microsoft® Windows®-based, so integration and application development are simple.
- **Operating System Upgrade Path:** Enterprises have an upgrade path for customers who need backward compatibility to their Windows® CE installed base now but want to upgrade in the future.
- **Versatile:** Can be deployed in multiple application environments - from dry goods to cold storage, indoor or outdoor, in-premise or in intermodal facilities, in any IT environment.

Thor VM3 Technical Specifications

Mechanical	
Dimensions	Computer: 12.5″ x 10.3″ x 2.4″ (318 x 260 x 62); Dock: 7.1″ x 6.1″ x 2.1″ (180 x 155 x 54mm); Assembled depth: 4.1″ (104mm)
Weight	Computer: 6.65 lb (3.0 kg); Std Dock: 3.2 lb (1.5 kg); Enhanced Dock: 2.4 lbs (1.1kg); Dock weights include mounting ball
Operating Temperature	-22° to +122°F (-30° to +50°C)
Storage Temperature	-22° to +122°F (-30° to +50°C)
Humidity	5% to 95% non-condensing
Environmental Sealing	Independently certified to meet IP66 standards for moisture and particle resistance
ESD	EN 55024:2010 (enhanced ESD to 8kV direct & 15kV air)
Vibration	MIL-STD-810F, composite wheeled vehicles
Shock	SAE-J1455 (MIL-STD-810g-4.6.6 Procedure V-Crash Hazard Shock Test)
System Architecture	
Processor	Dual Core Intel® Atom E3826 @ 1.5 GHz
Operating System	Microsoft® Windows® Embedded Compact 7 (WEC 7), Microsoft® Windows® Embedded Standard 7 (WES 7), Microsoft® Windows® 7 (Win 7), Microsoft® Windows® Embedded 8.1 Industry Pro(Win 8)
Memory	2GB or 4GB DDR3
System Software	Data Collection Engine for support of external scanners, Bluetooth wireless technology configuration utilities, Microsoft® Internet Explorer, Microsoft® on-screen keyboard, Configuration Cloning Utility, Screen Blanking, Zoom Zone, Launcher
Optional Software	RFTerm & ETE Terminal Emulators, Enterprise Browser, Remote Mastermind (ReM) device management
Mass Storage	WEC 7: 2GB WES 7: 32GB, 64GB, optional 4GB industrial mSATA secondary SSD Win 7: 32GB, 64GB, optional 4GB industrial mSATA secondary SSD Win 8 Industry: 32GB, 64GB, optional 4GB industrial mSATA secondary SSD
Graphics Processor	Intel® HD Graphics Base Freq 533 MHz, Burst Freq 667 MHz, supports two displays
Power Supply & UPS	10 to 60 VDC isolated, Optional external converters for AC (90-240VAC) & extended range DC (60-150 VDC); Integrated Li-ION maintenance UPS with 30-min life at -30°C standard
Display	Indoor: 12.1″ (307 mm) XGA (1024x768) LED backlit display, 400 NIT, Optional screen blanking Outdoor: 12'1″ (307mm) XGA (1024x768) LED backlit display, 900 NIT, Optional screen blanking Mini HDMI port support additional remote display
Touch Panel	Standard: Industrial touch panel with resistive touch and support for finger touch and standard stylus Multitouch: Optional Industrial touch panel with Projected Capacitance touch for finger and conductive stylus; hardened glass overlay Cold Storage: Optional industrial resistive touch screen with integrated defroster
Integrated Keypad	Seven programmable multi-function keys
Audio	Audio for headset, integrated stereo speakers w/ adjustable volume control, integrated microphone
I/O Ports	1x USB 2.0 powered host port, 2x powered RS-232 COM ports, 1x CAN-bus port, 1x Headset port, DC power input & ignition control input, RF Antenna ports for WiFi (2), Optional RF Ports for WWAN (2) & GPS (1); Enhanced Dock adds 3 USB powered host ports and Ethernet
Storage Expansion	User installable expansion slot supports 4GB mSATA card
Development Environment	Honeywell SDK available for Windows® Embedded Compact 7
Warranty	1 year factory warranty
Service Plans	Optional three- and five-year service programs offer worry-free mobile computing
Wireless Connectivity	
WWAN	Optional software definable (data only) 4G radio: LTE/UMTS/HSPA+/ GSM/GPRS/EDGE/EV-DO Rev A/1xRTT with data speeds up to 100Mbps downlink and 50 Mbps uplink
WLAN	802.11 a/b/g/n Wi-Fi™ - certified, CCX certified for data
WLAN Security	Authentication: Support for a full range of 802.1X (EAP) types, including EAP-TLS, PEAP-MSCHAPv2, PEAP-GTC, LEAP, and EAP Fast Encryption Support: Support for Static, pre-shared, and dynamic encryption keys, 40-bit and 128-bit keys, WEP, WPA (TKIP), and WPA2 (AES) Encryption Methods
WLAN Antennas	Dual internal antennas, dual external remote and direct connect antenna accessories
WPAN	WEC 7, WES 7, Win 7: Bluetooth® 2.0+EDR standard, internal antenna Win 8: Bluetooth® 4.0 standard, internal antenna
GPS	Integrated Assisted GPS (A-GPS) with fast position acquisition and low power consumption. Included with WWAN radio

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For a complete listing of all supported bar code symbologies, please visit www.honeywellaidc.com/symbologies

For more information:

www.honeywellaidc.com

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