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Thor VM2

Vehicle-Mount Computer

Solidifying Honeywell's position as the leader in vehicle-mount computing, the Thor VM2 builds on the best-in-class Thor VM1 that was created specifically to address the unique challenges of supply chain applications.

Ideally suitable for warehouse, port and yard process automation, the Thor VM2 introduces an additional form factor option granting greater flexibility which is emphasized by its 9.7" XGA display, programmable multi-function keys, and WLAN and WWAN connectivity. Available with Microsoft Windows CE 6.0, Windows 7 Pro, Windows Embedded Standard 7 and Windows Embedded Standard 2009 operating systems and compatible with many industry standard terminal emulation and web browser applications including the popular Honeywell RFTerm™ TE, the Thor VM2 is built for simple and easy application development and system integration.

The same key features that have made the Thor VM1 an overwhelming success are in VM2. Delivering laptop-like simplicity, the Smart Dock capability allows for the separation of the computer from the power supply empowering users to seamlessly migrate from vehicle to vehicle and reducing the required number of computers. Further, the field-replaceable front panel enables single-tool touch screen repairs, which significantly minimizes downtime and maintenance costs resulting from wear and tear at the most common breaking point. Lastly, the power management settings that accompany the ignition control feature virtually eliminate dead vehicle batteries and the subsequent productivity losses.

The supply chain industry requires workers to function in rough conditions where unique challenges exist. As a result, it is important to incorporate the highest efficiency while maintaining low cost. With the unique features in Thor VM2, businesses are able to address and respond to these versatile issues as they occur, dramatically improving operations.



Features

- **Smart Dock:** Enables mounting and removal in seconds like a laptop dock but with the ruggedness and sealing required for industrial applications; maximizes efficiency by dynamically shifting workers and computers as the workload changes, while minimizing maintenance cost by enabling a computer to be shifted from one vehicle to another in 1/6 the standard time
- **Field-Replaceable Front Panel:** Reduces capital and maintenance cost by integrating the two most wear and abuse prone components, the keyboard and touchscreen, into a user-replaceable part; reduces capital costs by substituting spare front panels for spare computers
- **Ignition Control:** Eliminates the maintenance expense and lost productivity caused by a dead vehicle battery; unit can be configured to automatically go into standby or hibernate at a selectable time after the ignition switch is turned off, saving time for associates while eliminating a point of concern for warehouse management

Thor VM2 Technical Specifications

Mechanical	
Dimensions	Computer: 10.6″ x 8.4″ x 2.1 (268 x 214 x 53); Dock: 7.1″ x 6.1″ x 2.5″ (180 x155 x 64mm)
Weight	Computer: 4.8 lb (2.2 kg); Dock: 3.2 lb (1.2 kg)
Operating Temperature	-4°to +122°F (-20° to +50°C)
Storage Temperature	-4°to +122°F (-20° to +50°C)
Humidity	5% to 95% non-condensing
Environmental Sealing	Independently certified to meet IP66 standards for moisture and particle resistance
ESD	EN 55024:1998 (enhanced ESD to 8kV direct & 15kV air)
Vibration	MIL-STD-810F, composite wheeled vehicles
Shock	SAE-J1455
System Architecture	
Processor	Intel® Atom Z530 1.6GHz
Operating System	Microsoft® Windows® CE 6.0, Microsoft® Windows® 7 Pro, Microsoft® Windows® Embedded Standard 7 (WES 7), Microsoft® Windows® Embedded Standard (WES 2009)
Memory	CE 6.0: 1GB, Windows 7 Pro, WES 7 & WES 2009: 2GB, DDR2 SDRAM
System Software	CE 6.0: Microsoft® Internet Explorer 6, Microsoft® on-screen keyboard, DCWedge barcode wedge Windows 7 Pro & WES 7: Microsoft® Internet Explorer 10, Freefloat Key on-screen keyboard, Freefloat Link wedge WES 2009: Microsoft® Internet Explorer 8, Microsoft® on-screen keyboard, Freefloat Link wedge
Optional Software	CE 6.0: RFTerm TE, Naurtech CETerm & Industrial Browser, and Stay-Linked Terminal Emulators, Wavelink Avalanche & eXpressConfig network management; Windows 7 Pro, WES 7 & WES 2009: RFTerm TE, Freefloat Access TE Optional Remote Mastermind (ReM) remote device management
Mass Storage	CE 6.0: 1GB Windows 7 Pro: 32GB, optional 4GB industrial SD secondary SSD WES 7: 16GB, optional 4GB industrial SD secondary SSD WES 2009: 4GB, 8GB
Graphics Processor	Intel® GMA 500
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 -20°C, charging range 0°C to +35°C
Display	9.7″ (246 mm) XGA (1024x768) LED backlit display, 400 NIT, Optional screen blanking
Touch Panel	Industrial touch panel with resistive touch and support for finger touch and stylus
Keyboard	Five 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, 1x USB 1.1 client 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), WWAN (1) & GPS (1)
Storage Expansion	User installable expansion slot supports 1GB and 4GB SD card
Development Environment	Honeywell SDK available for Windows® CE 6.0; Standard Windows® SDK for Windows 7 Pro, WES 7, WES 2009
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) 3.75G radio with five-band UMTS/HSPA+ (800/850/900/1900/2100MHz), quadband GSM/GPRS/EDGE (850/900/1800/1900MHz) and dual-band EV-DO/CDMA (800/1900)
WLAN	Microsoft® Windows® CE 6.0: 802.11 a/b/g Windows 7 Pro, WES 7 & WES 2009: 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 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	Bluetooth® 2.0+EDR 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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www.honeywellaidc.com

Honeywell Scanning & Mobility

9680 Old Bailes Road

Fort Mill, SC 29707

800.582.4263

www.honeywell.com

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