THOR VM3

Vehicle-Mounted Computer

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

The Thor VM3 full-size vehicle-mounted computer delivers unmatched operational efficiencies in the toughest distribution center environments.

The Thor VM3 computer offers breakthrough features designed to eliminate downtime and maximize capital investment. 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 workloads change. The field-replaceable front panel allows enterprises to minimize investments in spare parts 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 Microsoft® Windows® operating systems and the power to take advantage of the latest security and productivity-enhancing features and functionality. The Thor VM3 computer supports the Windows 10 operating system, so integration and application development are simple as business needs grow. For enterprises currently running on the Windows operating system, the Thor VM3 computer offers easy implementation and deployment into existing and future IT infrastructures. With 8 GB RAM and 128 GB solid-state disk, the Thor VM3 computer can run powerful programs and applications to maximize efficiencies in activities such as case picking, truck loading, put-away 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 inter-modal facilities, the Thor VM3 computer enables enterprises to choose the options needed to maximize efficiencies in the most demanding environments. The Thor VM3 computer supports standard resistive touchscreen or optional capacitive touchscreen for multi-touch applications. The Thor VM3 computer 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.

FEATURES AND BENEFITS

Smart Dock feature enables mounting and removal in seconds, saving on support and maintenance costs while maximizing efficiency by allowing dynamic shifting of computers as workloads change.

A user field-replaceable front panel reduces maintenance costs by allowing users to service the most wear- and abuse-prone components themselves rather than returning them to the repair depot.

Built-in ignition control eliminates the maintenance expense and lost productivity caused by a dead vehicle battery.

The Intel® x86 architecture and Dual Core 1.5 GHz processor enable superior performance in data-intensive applications.

With support for Windows, the Thor VM3 easily integrates into existing IT infrastructures while enabling an upgrade path for the future.

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Thor VM3 Technical Specifications

MECHANICAL

Dimensions: Computer: 318 x 260 x 62 mm (12.5 x 10.3 x 2.4 in); Dock: 180 x 155 x 54 mm (7.1 x 6.1 x 2.1 in); Assembled Depth: 104 mm (4.1 in)

Weight: Computer: 3.0 kg (6.65 lbs); Standard

Dock: 1.5 kg (3.2 lbs); Enhanced Dock: 1.1 kg (2.4 lbs) Dock weights include mounting ball.

Operating Temperature: -30°C to +50°C (-22°F to +122°F)

Storage Temperature: 30°C to +60°C (-22°F to +140°F)

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 and 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: 1.5 GHz Dual Core Intel Atom E3826

Operating System: Microsoft Windows 10, 2019

Memory: 8 GB 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 and ETE Terminal Emulators, Enterprise Browser, SOTI device management

Mass Storage: 128 GB industrial mSATA SSD

Graphics Processor: Intel HD Graphics Base Frequency 533 MHz, Burst Frequency 667 MHz

Power Supply & UPS: 10 to 60 VDC isolated, optional external converters for AC (90–240 VAC) and extended range DC (60–150 VDC); integrated Li- Ion maintenance UPS with 30-min life at -30°C (-22° F)

Display: Indoor: 307 mm (12.1 in) XGA (1024 x 768) LED backlit display, 400 NIT, optional screen blankingVoIP quality.

Outdoor: 307 mm (12.1 in) XGA (1024 x 768) LED backlit display, 900 NIT, optional screen blanking

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 touchscreen with integrated defroster

Integrated Keypad: Seven programmable multi-function keys

Audio: Audio for headset, integrated stereo speakers with adjustable volume control, integrated microphone

Enhanced Dock: 2x powered RS-232 COM ports, 1x USB 2.0 powered host port Type A, 3 additional USB 2.0 powered host ports, 1x USB 2.0 Client port, 1x Ethernet RJ45 port, 1x CAN-bus port, 1x headset port, DC power input and ignition control input.

Standard Dock: 2x powered RS-232 COM ports, 1x USB 2.0 powered host port, 1x USB 2.0 Client port, 1x CAN-bus port, 1x headset port, DC power input and ignition control input.

Computer: RF Antenna ports for Wi-Fi and GPS (1) Storage Expansion: User-installable expansion slot supports 4 GB mSATA card

Development Environment: Honeywell SDK available for Windows Embedded Compact 7

Warranty: One-year factory warranty

Service Plans: Optional three- and five-year service programs offer worry-free mobile computing

WIRELESS CONNECTIVITY

WLAN: 802.11 a/b/g/n Wi-Fi certified, CCX certified for data

Wi-Fi: 802.11 a/b/g/n/ac/d/e/h/i/k/r/w

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: Win 10: Bluetooth 2.0+EDR standard, internal antenna

Win 10 Industry: Bluetooth 4.0 standard, internal antenna GPS: Integrated Assisted GPS (A-GPS) with fast position acquisition and low power consumption.

For a complete listing of all compliance approvals and certifications, please visit sps.honeywell.com

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