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 +50°C (-22°F to +122°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 Embedded Compact 7 (WEC 7), Microsoft Windows Embedded Standard 7 (WES 7), Microsoft Windows 7 (Win 7), Microsoft Windows 10 IoT Enterprise (Win 10 Industry)
Memory: 4 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: WEC 7: 2 GB
WES 7: 64 GB, optional 4 GB industrial mSATA secondary SSD
Win 7: 64 GB, optional 4 GB industrial mSATA secondary SSD
Win 10 Industry: 64 GB, optional 4 GB industrial mSATA secondary 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 blanking
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 (2), optional RF ports for WWAN (2) 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

WWAN: Optional software-definable (data only)
4G radio: LTE/UMTS/HSPA+/GSM/GPRS/EDGE/EV-DO Rev A/1xRTT with data speeds up to 100 Mbps 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 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 10 Industry: 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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