THOR VM3A

Vehicle-Mounted Computer

Designed for use in the toughest distribution centers, manufacturing facilities and freight operations, the Thor™ VM3A computer is the industry's most capable full-sized vehicle-mounted mobile computer, delivering unmatched operational efficiences.



The Thor VM3A full-sized, vehicle-mounted computer delivers unmatched operational efficiencies in the toughest distribution center environments.

The Thor VM3A vehicle-mounted computer offers breakthrough features designed to eliminate downtime and maximize capital investment. The rugged, Android™-based Thor VM3A device also offers all the advantages of Honeywell's Mobility Edge™ platform – including the ability to accelerate provisioning, application certification and deployment across the enterprise. The Thor VM3A is upgradable to Android 13, and features extended security update support to maximize return on customer investment and provide a lower overall total cost of ownership (TCO). The device's advanced enterprise configuration and software support tools also simplify frequently repeated tasks such as unit setup and distribution of security and software updates.

Compact, ergonomic and powerful, the Thor VM3A vehicle-mounted computer has numerous breakthrough features designed to maximize productivity, minimize visual obstructions and reduce or eliminate downtime. The powerful Qualcomm® 660 processor, integrated keyboard and 2x2 MIMO WLAN communications keep workers connected and productive. Built to withstand extreme temperatures, the device's large 12-inch display, readable both indoors and outdoors, supports both resistive and capacitive touchscreen options, and is available with an optional screen defroster for use in cold storage and freezer environments.

The Smart Dock feature delivers immediate savings on support and maintenance costs while maximizing efficiency, enabling users to quickly shift computers as vehicles fail or workloads change. The field-replaceable front panel allows enterprises to minimize investments in spare parts by substituting low-cost spare front panels for spare computers and saves valuable time and maintenance costs by leveraging in-house staff to service touchscreen or keyboard failures.

FEATURES AND BENEFITS

The Smart Dock feature enables mounting and removal in seconds without affecting the cabling, saving on support and maintenance costs while minimizing capital expenses.

The field-replaceable front panel reduces maintenance costs by enabling on-site unskilled personnel to service the most wear- and abuse-prone components rather than returning them to the repair depot.

Security update availability is just as important as computer durability for maximizing a computer's useful life. Mobility Edge products provide five more years of security updates than a typical Android device.

No need to choose between optimizing productivity and minimizing IT support costs: All Honeywell Mobility Edge computers share a common hardware and software platform. From an IT perspective, they are all the same product.

The Mobility Edge hardware platform and enterprise lifecycle tools drive an integrated, repeatable, scalable approach for accelerated and secure development, deployment, performance and lifecycle management.

Honeywell

THOR VM3A Technical Specifications

SYSTEM ARCHITECTURE

Processor: 2.2 GHz Qualcomm Snapdragon™ 660 octa-core
Operating System: Android 9 with guaranteed support through 13 and committed to support 14 subject to confirmation of feasibility from Qualcomm
Memory: 4 GB RAM, 32 GB Flash
Storage Expansion: User-accessible microSD card up to 512 GB (SDXC/SDHC-compliant)
Audio: Audio for headset, integrated stereo speakers with adjustable volume control, integrated microphone
Input/Output:
- **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 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 headset port, DC power input and ignition control input

Sensors: Ambient light sensor, accelerometer, gyroscope, magnetometer

MECHANICAL

Dimensions:
- **Computer:** 318 mm x 260 mm x 62 mm (12.5 in x 10.3 in x 2.4 in)
- **Dock:** 180 mm x 155 mm x 54 mm (7.1 in x 6.1 in 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)

Operating Temperature: -20°C to +50°C (-4°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 8 kV direct and 15 kV air)
Vibration: Proprietary Random Profile exceeding MIL-STD-810F, composite wheeled vehicles
Shock: SAE-J1455 (MIL-STD-810g-4.6.6 Procedure V-Crash Hazard Shock Test)

STRUCTURE

Power Supply & UPS: 10 to 60V DC isolated, optional external converters for AC (90–240V AC) and extended range DC (60–150V DC); integrated Li-Ion maintenance UPS with 30-min life at 0°C (32°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

WIRELESS CONNECTIVITY

WLAN: 802.11 a/b/g/n/ac/d/e/h/i/k/r/w. 802.11v on Android 8 (O) or higher and 802.11mc on Android 9 (Q) or higher
Additional WLAN Features: 802.11 d/h/i/r/k/w
WLAN Security: OPEN, WEP, WPA/WPA2 (Personal and Enterprise)
Supported EAP: TLS, PEAP, TTLS, PWD, FAST, LEAP CCX Version 4 compliant
WLAN Antennas: Dual internal antennas, dual external remote and direct connect antenna accessories; 2x SMA connectors for external WLAN antennas
Bluetooth®: Class 1.5 V5.0 Bluetooth and BLE
Bluetooth Profiles: HFP, PBAP, A2DP, AVRCP, OPP, SPP, GATT
NFC: Integrated Near Field Communication

SOFTWARE

Honeywell Power Tools and Demos
Terminal Emulator
Enterprise Browser
Application Launcher and Lockdown Provisioning Tools
Honeywell Mobility SDKs for Android, Web and Xamarin
Support for Third-Party MDM Solutions

WARRANTY

One-year factory warranty

SERVICE PLANS

Optional service programs offer worry-free mobile computing

For a complete listing of all compliance approvals and certifications, please visit www.honeywellaidc.com/compliance.

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

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THE FUTURE IS WHAT WE MAKE IT

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