Thor VM1A
Vehicle-Mount Computer

Forklifts and vehicle-mount computers are essential tools in the day-to-day workflows of warehouses, manufacturing, ports, and intermodal environments. You need to keep moving products and materials in and out all day long, without compromise, and without worrying that your vehicle-mount computer won’t be able to keep up with your workforce or your IT infrastructure. You need the Thor™ VM1A.

Built with many of the same easy-to-use, easy-to-maintain features of the popular Thor VM1 and CV41 models, the rugged, Android™-based Thor VM1A 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 VM1A is upgradable from Android O to Android R, and features extended security update support to maximize return on customer investment and provide a lower overall 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 VM1A 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 8-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 & BENEFITS**

- The Smart Dock feature enables mounting and removal in seconds without touching cabling, saving on support and maintenance costs while minimizing capital expense by allowing the shifting of computers between vehicles as workloads change.
- The field-replaceable front panel reduces maintenance costs by enabling on-site unskilled personnel to service the most wear- and abuse-prone components themselves 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.

Built on the future-proof Mobility Edge platform, the Android-based Thor VM1A vehicle-mount computer is built tough to handle harsh warehouses, ports, and intermodal and manufacturing environments.
Thor VM1A Technical Specifications

SYSTEM ARCHITECTURE
Processor: 2.2 GHz Qualcomm® Snapdragon™ 660 octa-core
Operating System: Android 8 (Oreo), upgradable through Android R
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 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: 2x SMA connectors for external WLAN antennas

WIRLESS CONNECTIVITY
WLAN: IEEE 802.11 a/b/g/n/ac;
2x2 MIMO, Wi-Fi Alliance certified
Additional WLAN Features: 802.11d/e/f/g/h/i/j/k/m/ma/REVma/mb/REVmb/REVmc/p/r/s/t/v/w/x/y/aa/ab/ace/af/al/ah/aj/ak/akj/akq/ax/802.11.1/802.11.2
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
Bluetooth*: Class 1 5 V.0 Bluetooth and BLE Bluetooth Profiles: HFP, PBAP, A2DP, AVRCP, OPP, SPP, GATT
NFC: Integrated Near Field Communication

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

ACCESSORIES
Compatible with the VM series of accessories

For more information
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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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MECHANICAL
Dimensions (L x W x H):
Computer: 268 mm x 214 mm x 43 mm
(10.6 in x 8.4 in x 1.7 in)
Weight: 2.1 kg (4.6 lb)
Dock: 180 mm x 155 mm x 64 mm
(7.1 in x 6.1 in x 2.5 in)
Weight: 1.2 kg (3.2 lb)

ENVIRONMENTAL
Operating Temperature: -30°C to 50°C
(-22°F to 122°F)
Storage Temperature: -30°C to 70°C
(-22°F to 158°F)
Humidity: 5% to 95% relative humidity (non-condensing)
Vibration: MIL-STD-810F, composite wheeled vehicles
Shock: SAE-J1455
ESD: EN55024:1998 (enhanced ESD to 8 kV direct and 15 k V air)
Environmental Sealing: Independently certified to meet IP66 standard for moisture and particle intrusion

WARRANTY
One-year factory warranty

SERVICE PLANS
Optional service programs offer worry-free mobile computing

Thor VM1A Data Sheet | Rev A 09/18
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