

# THOR VM1A

## Vehicle-Mounted Computer

**Forklifts and vehicle-mounted 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-mounted 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 as 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 8 to Android 13, 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.



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

## 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.

## SYSTEM ARCHITECTURE

**Processor:** 2.2 GHz Qualcomm Snapdragon™ 660 octa-core

**Operating System:** Android 8. Guaranteed support through 13, 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 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

**Sensors:** Ambient light sensor, accelerometer, gyroscope, magnetometer

**Display:** 220 cm (8 in) WXGA (1280 x 768) LED backlit display, standard 400 NIT indoor display, optional 900 NIT outdoor display, optional screen blanking

### Touch Panel:

**Resistive:** Industrial touch panel with support for finger touch and standard stylus; supports swipe

**Capacitive:** PCAP multi-touch touch panel for finger and conductive stylus; hardened glass overlay. Automatic detection and configuration utilizing mutual and self-capacitance modes for water rejection and use with many off-the-shelf gloves

**Cold Storage:** Optional industrial resistive touchscreen with integrated defroster

**Keypad:** Full 64-key QWERTY keyboard with number pad and 10/20 function keys; all keys, except modifiers, are mappable; all keys backlit; key labels support ANSI and 5250 emulation

**Power Supply and UPS:** 10 to 60V DC isolated, optional external converters for AC (90 to 240V AC) and extended range DC (60 to 150V DC); integrated Li-Ion maintenance UPS with 30-min life at 20°C (68°F), charging range 0°C to +35°C (32°F to +95°F)

## ACCESSORIES

Compatible with the VM series of accessories

## 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 (5.6 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:** -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% 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 kV air)

**Environmental Sealing:** Independently certified to meet IP66 standard for moisture and particle intrusion

## WIRELESS CONNECTIVITY

**WLAN:** IEEE 802.11 a/b/g/n/ac; Wi-Fi Alliance Certified, 2x2 MU-MIMO

**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

**Wi-Fi:** 802.11 a/b/g/n/ac/d/e/h/i/k/r/w. 802.11v on Android 8 or higher and 802.11mc on Android 9 or higher

**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 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](http://www.honeywellaidc.com/compliance).

For a complete listing of all supported barcode symbologies, please visit [www.honeywellaidc.com/symbologies](http://www.honeywellaidc.com/symbologies).

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