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Honeywell THOR VM2 Vehicle Mount Computer

Honeywell THOR VM2 Vehicle Mount Computer User Guide

Contents

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Quick Start Guide

The Thor VM2 can be connected to vehicle power as follows:

- Direct power connection (12-48VDC vehicles). See Connecting the Power Cable, below.
- Replace a previously installed VX6/VX6 or Thor VX8/VX9 with an adapter cable. See Adapter Cables, below.
- High voltage forklifts (over 60V). Refer to the "DC/DC Power Supply Installation Instructions," available at
    - **www.honeywellaidc.com**.

Connecting the Power Cable

The following power option is for 12-48VDC vehicles (10-60VDC direct connection).

CAUTION – For installation by trained service personnel only.
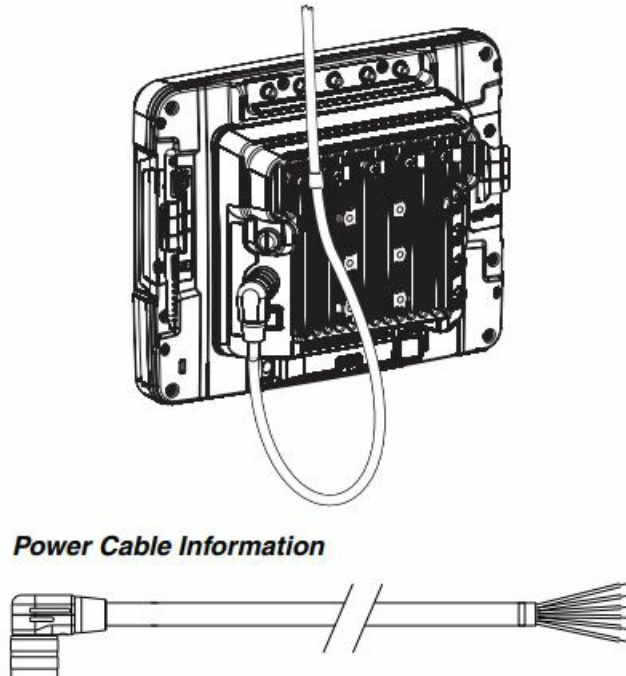
Fuse Requirements

WARNING – For proper and safe installation, the input power cable must be connected to a fused circuit on the vehicle. If the supply connection is made directly to the battery, the fuse should be installed in the positive lead within 5 inches of the battery's positive (+) terminal. The fused circuit requires a maximum time delay (slow blow) fuse with a current rating as noted below.

- For 12VDC input, use a 10A slow blow fuse that has a DC voltage rating greater than 12VDC.
- For 24VDC input, use a 6A slow blow fuse that has a DC voltage rating greater than 24VDC.
- For 36VDC input, use a 4A slow blow fuse that has a DC voltage rating greater than 36VDC.
- For 48VDC input, use a 3A slow blow fuse that has a DC voltage rating greater than 48VDC.

Note: For North America, a UL-listed fuse must be used.

- Route the power cable away from the outside of the forklift.
- Choose a mounting location so that the power cable does not extend outside the vehicle and that provides sufficient clearance so that the power cable (especially the dock connector end) is not pressed against part of the vehicle.
- Regularly inspect power cable for damage, especially in low-temperature environments.

Power Cable Routing

Power Cable Information

Twist the red and red/white wires together and twist the black and black/white wires together before connecting to vehicle power. Connect the green wire to the vehicle ground:

For battery-powered vehicles:

- The green wire must be connected to the vehicle chassis ground.
- For internal combustion engine-powered vehicles: The green wire is connected to the vehicle chassis ground, which can also be battery negative.

Wire Color	Connection
Red	DC + (10-60 VDC)
Red/White	DC + (10-60 VDC)
Black	DC –
Black/White	DC –
Green	Ground
Blue	Ignition Input (optional) *Refer to the Thor VM2 User's Guide, available at www.honeywellaidc.com, for further information about ignition control.*

Power Cable Installation

1. The Thor VM2 must not be mounted in the Quick Mount Smart Dock. The power switch on the dock must be turned Off. The power cable must be UNPLUGGED from the dock.
2. While observing the Fuse Requirements in panel 2, con-nect the power cable as close as possible to the actual battery terminals of the vehicle (if using unswitched power).
3. The cable is rated for a maximum temperature of 221°F (105°C). The cable should be protected from surfaces that exceed this temperature, from physical damage from mov-ing parts, and from chemicals or oil that cause the insulation to deteriorate.
4. Avoid sharp bends. The power cable is less flexible in low-temperature environments.
5. Route the cable the shortest way possible removing any leftover cable, making sure the cable does not interfere with safe operation and maintenance of the vehicle.
6. Secure the cable to the vehicle structure at approximately one foot intervals, taking care not to over-tighten, pinch conductors, or penetrate the insulation.
7. Use proper electrical and mechanical fastening means for terminating the cable. Properly sized "crimp" type electrical terminals are an accepted method of termination. Select electrical connectors sized for use with 20AWG (0.81mm2) conductors.
8. Connect the watertight connector end of the power cable to the Thor VM2 Quick Mount Smart Dock power connector by aligning the connector pins to the power connector; push down on the watertight connector and twist it to fasten securely.
9. Secure the power cable to the Thor VM2 using strain relief cable clamps, and place the Thor VM2 in the dock.
10. If using the Screen Blanking feature, install the screen blanking box or switch. (Refer to the installation instructions that came with the Screen Blanking box, or to the Thor VM2 User's Guide, available at www.honeywellaidc.com for further information about the Screen Blanking box.)
11. Press the power switch on the back of the Thor VM2 dock.
12. Press the power button on the front of the Thor VM2.

Adapter Cables

This section assumes the VX6/VX7 or Thor VX8/VX9 power cable is properly connected to vehicle power. Refer to the appropriate Vehi-cle Mounting Reference Guide for details.
Note: For high voltage forklifts (over 60V), refer to the "DC/DC Power Supply Installation Instructions," available at **www.honeywellaidc.com**.

VX6/VX7 Adapter Cable

CAUTION – Because the Thor supports 10-60 VDC power input, verify input voltages before using this adapter cable with an existing VX6 or VX7 power con-nection installation.

This adapter cable is available to attach the Thor VM2 to a vehi-cle previously equipped with a VX6/VX7 DC power cable. When this adapter cable is used, there is no provision for an ignition switch input. Therefore the vehicle ignition monitoring function is not available when using this cable.

1. The Thor VM2 must not be mounted in the Quick Mount Smart Dock. The power switch on the dock must be turned Off. The power cable must be UNPLUGGED from the dock.
2. Connect the cable to the Thor VM2 power cable by aligning the connector pins to the power connector; push

down on the watertight connector and twist it to fasten securely.

3. The cable is rated for a maximum temperature of 221°F (105°C). The cable should be protected from surfaces that exceed this temperature, from physical damage from moving parts, and from chemicals or oil that cause the insulation to deteriorate. Route the cable so that it does not interfere with safe operation and maintenance of the vehicle.

4. Secure the cable to the vehicle structure at approximately one-foot intervals, taking care not to over tighten, pinch con-ductors, or penetrate the insulation.

5. Connect the watertight connector end of the power cable to the Thor VM2 Quick Mount Smart Dock power connector by aligning the connector pins to the power connector; push down on the watertight connector and twist it to fasten securely.

6. Secure the power cable to the Thor VM2 using strain relief cable clamps, and place the Thor VM2 in the dock.

7. If using the Screen Blanking feature, install the screen blanking box or switch. (Refer to the installation instructions that came with the Screen Blanking box, or to the Thor VM2 User's Guide, available at www.honeywellaidc.com for fur-ther information about the Screen Blanking box.)

8. Press the power switch on the back of the Thor VM2 dock.

9. Press the power button on the front of the Thor VM2.

Thor VX8/VX9 Adapter Cable

This adapter cable is available to attach the Thor VM2 to a vehi-cle previously equipped with a VX8/VX9 DC power cable. This cable has bare wires for ground and ignition sense connection plus a D9 cable that connects to a COM port on the Thor VM2 dock to provide a screen blanking signal.

1. The Thor VM2 must not be mounted in the Quick Mount Smart Dock. The power switch on the dock must be turned Off. The power cable must be UNPLUGGED from the dock.

2. Connect the cable to the Thor VM2 power cable by aligning the connector pins to the power connector; push down on the watertight connector and twist it to fasten securely.

3. Connect the green wire to the vehicle ground:
    - For battery-powered vehicles:
        - The green wire must be connected to the vehicle chassis ground.
    - For internal combustion engine-powered vehicles:
        - The green wire is connected to the vehicle chassis ground, which can also be battery-negative.

4. If ignition control will be used, connect the blue wire to an ignition-switched circuit (less than 1mA over the input voltage range). If ignition control is not used, the blue wire can be left disconnected,

5. If the VX8/VX9 cable is connected to a screen blanking box or switch, connect the D9 connector to a COM port on the dock. (Refer to the installation instructions that came with the Screen Blanking box, or to the Thor VM2 User's Guide, available at www.honeywellaidc.com, for further information about the Screen Blanking box.)

6. The cable is rated for a maximum temperature of 221°F (105°C). The cable should be protected from surfaces that exceed this temperature, from physical damage from moving parts, and from chemicals or oil that cause the insulation to deteriorate. Route the cable so that it does not interfere with safe operation and maintenance of the vehi-cle.

7. Secure the cable to the vehicle structure at approximately one-foot intervals, taking care not to over-tighten, pinch conductors, or penetrate the insulation.

8. Connect the watertight connector end of the power cable to the Thor VM2 Quick Mount Smart Dock power connector by aligning the connector pins to the power connector; push down on the watertight connector and

twist it to fasten securely.

9. Secure the power cable to the Thor VM2 using strain relief cable clamps, and place the Thor VM2 in the dock.
10. If using the Screen Blanking feature, install the screen blanking box or switch.
11. Press the power switch on the back of the Thor VM2 dock.
12. Press the power button on the front of the Thor VM2.

Note: Have the following information available before setting up your Thor VM2:

- Network ID (SSID) of the Access Point
- WEP key or LEAP authentication credentials

Setting up the Thor VM2 Software

1. Connect the Thor VM2 to an external power source.
2. Press the Power button.
3. You may want to attach a USB keyboard during the setup process.
4. Accept the EULA.
5. Calibrate the touch screen.
6. Set the date and time.
7. Edit the radio parameters.
8. Edit the RFTerm Terminal Emulation parameters (optional).
9. Perform a reboot.

Bluetooth and Thor VM2

Refer to the Thor VM2 User's Guide, available at

- [**www.honeywellaidc.com**](http://www.honeywellaidc.com)

for information when using the Thor VM2 with Bluetooth.

ActiveSync

Installing ActiveSync on Desktop/Laptop

zzzzzActiveSync (version 4.5 or higher for Windows desktop/laptop computers) must be resident on the host (desktop/laptop) com-puter. Windows Mobile Device Center is required for a Windows Vista/Windows 7 desktop/laptop computer. ActiveSync and Windows Mobile Device Center for the PC are available from the Microsoft website. Follow Microsoft's instructions to locate, download and install ActiveSync or Windows Mobile Device Center on your desktop/laptop.

ActiveSync using USB-Client Connection

The only connection type is USB Client.

1. Connect the Thor VM2 end of the USB cable to the USB port on the back of the Thor VM2 Quick Mount Smart

Dock.

2. Connect the other end of the cable to a USB port on a PC or laptop.

ActiveSync starts automatically when the USB cable is connected. When the Thor VM2 loses connection (e.g., enters Suspend Mode), the connection to ActiveSync will be temporarily lost. When the Thor VM2 resumes, the ActiveSync session will auto-matically re-connect.

Refer to the Thor VM2 User's Guide, available at **www.honeywellaidc.com**, for further information about ActiveSync information.

Wireless Network Configuration

If the access point uses an authentication protocol (WEP, LEAP, etc.), your radio must use the same authentication. Contact your IT department for any necessary keys, login credentials, or certificates. Refer to the Thor VM1 User's Guide, available at

- **www.honeywellaidc.com**

for further information or for configuration options not listed here.

1. Tap Start > Programs > Summit > SCU or tap the Summit Client Utility icon on the desktop.
2. Tap the Admin Login button and enter the password (default = SUMMIT).
3. Tap the Profile tab and make sure the Default profile is selected.
4. Select SSID and enter the SSID of the access point.
5. If the access point is using WPA or WPA2:
   - 5a.Set Encryption to WPA TKIP, WPA CCKM, WPA2 AES, WPA2-TKIP, or WPA2 CCKM.
   - 5b. Set EAP type to PEAP/MSCHAP, PEAP/GTC, WPA/ LEAP, EAP-FAST or EAP-TLS.
   - 5c. Set Auth Type to Open unless using WEP/LEAP. For WEP/LEAP set Auth Type to correspond to the access point's setting.
   - 5d. Tap the Credentials button and complete the entries on the popup screen.
   - 5e. Tap OK. Skip to step 8.
6. If the access point is using WPA PSK:
   - 6a. Set Encryption to WPA PSK, WPA2-PSK-TKIP, WPAPSK- AES, or WPA2 PSK.
   - 6b. Set EAP type to None.
   - 6c. Tap the WEP keys/PSKs button and enter the PSK .
   - 6d. Tap OK. Skip to step 8.
7. If the access point is using LEAP:
   - 7a. Set Encryption to WEP EAP.
   - 7b. Set EAP Type to LEAP.
   - 7c. Set Auth Type to correspond to the access point's setting.
   - 7d. Tap the Credentials button and enter the User Name and Password.
   - 7e. Tap OK. Skip to step 8.
8. Tap the Commit button to save the radio configuration.
9. Tap the Main tab. Wait for a radio connected message.
10. Tap the Admin Logout button when finished.

Reboot the Thor VM1.

Setting Up AppLock (CE 6.0 only)

Thor VM2 devices are shipped to boot in Administration mode. In this mode, the user has full access to the device and no password is needed. After the administrator completes the process below, the Thor VM2 switches to end-user mode and restricts access to only the specified application(s).

1. Tap the Start > Settings > Control Panel > Administration icon.
2. Assign application(s) on the Application tab screen.
3. Assign a password on the Security tab screen.
4. Select a view level on the Status tab screen, if desired.
5. Tap OK.
6. Press the hotkey (Ctrl + Shift + A) sequence to launch AppLock and lock the configured application(s).
7. The device is now in end-user mode.

Connecting Using RFTerm®

Before you make a host connection, you will, at a minimum, need to know:

- the alias name or IP address (Host Address) and
- the port number (Telnet Port) of the host system to properly set up your host session.

1. Make sure the mobile client network settings are properly configured. If you are connecting via WLAN (802.11x), make sure your Thor VM2 is connected to the network.
2. Launch RFTerm by tapping the RFTerm icon on the desktop.
3. Select Session > Configure from the application menu and select the host type. This is dependent on the host system to which you are connecting; i.e., 3270 mainframe, AS/400 5250 server or VT host.
4. Enter the Host Address of the system. This may either be a DNS name or an IP address of the host system.
5. Update the telnet port number if your host application is configured to listen on a specific port. If not, use the default telnet port.
6. Select OK.
7. Select Session > Connect from the application menu or tap the Connect button on the Tool Bar.
8. Upon a successful connection, the host application screen is displayed.

To change options (e.g., Display, Colors, Cursor, Bar Code), refer to the RFTerm Reference Guide, available at www.honeywellaidc.com, for further information about these and other features.

Rebooting the Thor VM2

To reboot the Thor VM2 with Windows CE 6.0:

1. Select Start > Settings > Control Panel > Registry.
2. Tap the Warmboot button.

To reboot the Thor VM2 with all other Windows operating systems:

1. Select Start > Shutdown > Restart to reboot.

   When the Thor VM2 is booting, there may be small delays while the wireless client connects, applications launch, remote management completes and Bluetooth devices connect.

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Web Address: **www.honeywellaidc.com**

Patents

For patent information, please refer to **www.hsmpats.com**.

Technical Assistance

Contact information for technical support, product service, and repair can be found at **www.honeywellaidc.com**.
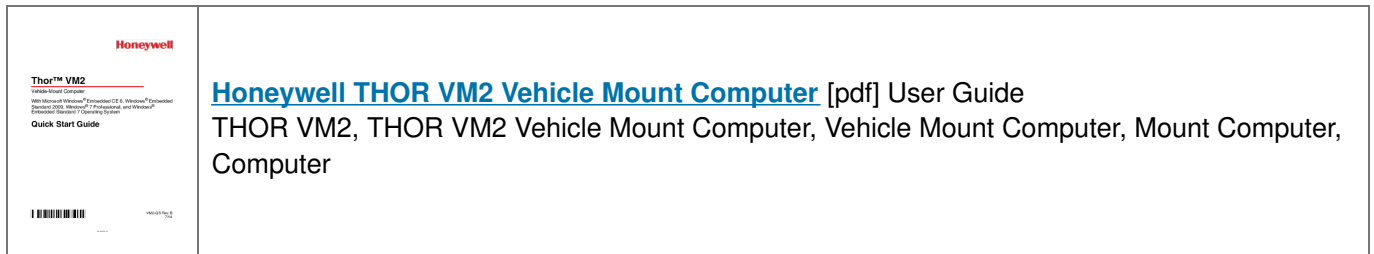
Limited Warranty

Refer to **www.honeywellaidc.com/warranty_information** for your product's warranty information.

User Documentation

To download the Thor VM2 user documentation go to

- **www.honeywellaidc.com**.

Documents / Resources

Honeywell THOR VM2 Vehicle Mount Computer [pdf] User Guide
THOR VM2, THOR VM2 Vehicle Mount Computer, Vehicle Mount Computer, Mount Computer, Computer

References

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