

## Thor™ VM3

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Vehicle-Mount Computer

### Quick Start Guide

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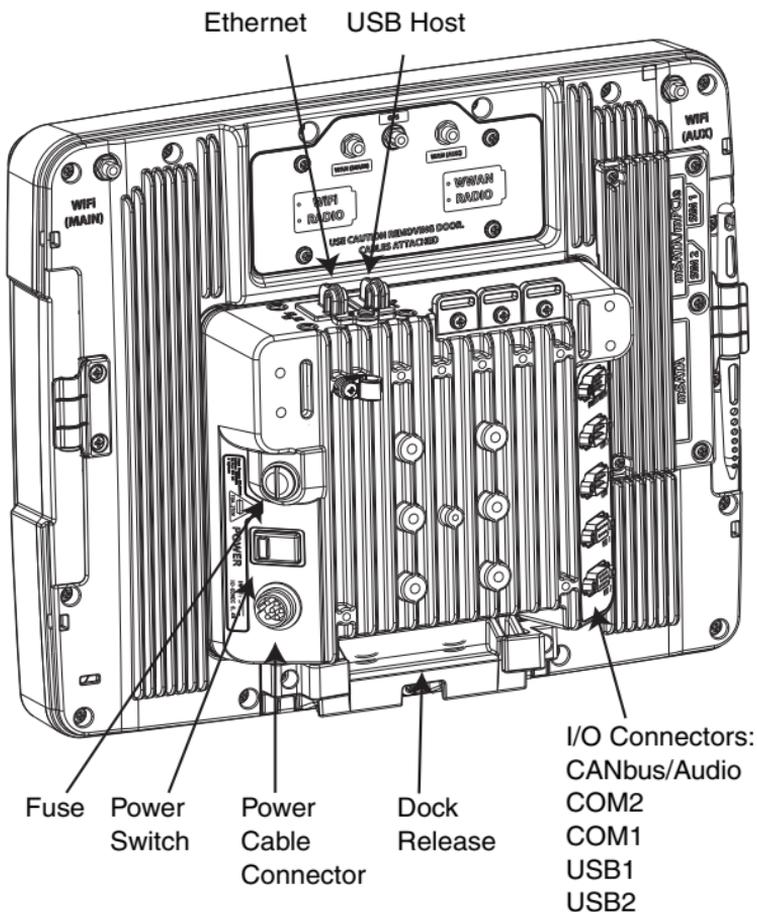
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# Components - Rear



See the Thor VM3 User's Guide for dock fuse replacement instructions.

## ***Mount to Vehicle***

The Thor VM3 should be secured to an area in the vehicle where it:

- Does not obstruct the driver's vision or safe vehicle operation.
- Will be protected from rain or inclement weather.
- Will be protected from extremely high concentrations of dust or wind-blown debris.
- Can be easily accessed by a user seated in the driver's seat while the vehicle is not in operation.

To mount the Thor VM3 using a RAM mount system:

1. Attach RAM base to vehicle (RAM ball, RAM Clamp, RAM Plate, etc.).
2. Attach RAM ball and optional keyboard bracket to the Smart Dock.
3. Attach Thor VM3 assembly to RAM base using RAM arm and tighten knob on RAM arm.
4. If using keyboard bracket, attach keyboard to mounting plate.
5. Attach keyboard assembly to Thor VM3 assembly using RAM arm and tighten knob on RAM arm.

*Note: An external keyboard is required for initial setup.*

For more details and other mounting options, refer to the *Thor VM3 User's Guide* available at [www.honeywellaidc.com](http://www.honeywellaidc.com).

## ***Connect Accessories***

Connect serial accessories, such as a bar code scanner, to the COM1 or COM2 port on the Smart Dock.

Connect the optional VMT keyboard to the USB1 port on the Smart Dock.

Connect other USB accessories to the optional VM3052CABLE adapter cable which attaches to the USB2 port.

## ***Connect Power***

The Thor VM3 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/VX7 or Thor VX8/VX9 with an adapter cable. See the *Thor VM3 User's Guide*, available at [www.honeywellaidc.com](http://www.honeywellaidc.com).
- High voltage forklifts (over 60V). Refer to the *Thor VM3 User's Guide* available at [www.honeywellaidc.com](http://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

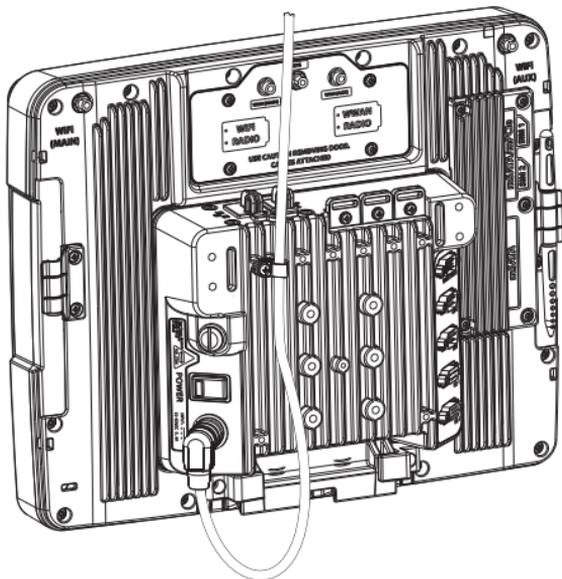
**WARNING** - For proper and safe installation, the input power cable must be connected to a fused circuit on the vehicle. If the supply connection is made directly to the battery, the fuse should be installed in the positive lead within 5 inches of the battery's positive (+) terminal. Use VM3055FUSE (or equivalent) to install the fuse as shown below:

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

*Note: For North America, a UL Listed fuse is to 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 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) <i>Refer to the Thor VM3 User's Guide, available at <a href="http://www.honeywellaidc.com">www.honeywellaidc.com</a>, for further information about ignition control.</i>

## ***Power Cable Installation***

1. The Thor VM3 must not be mounted in the Smart Dock. The power switch on the dock must be turned *Off*. The power cable must be UNPLUGGED from the dock.
2. Install the VM3 fuse kit (or equivalent slow blow fuse) within 5" (12.7 cm) of the vehicle battery (if using unswitched power). Refer to the installation instructions included with the fuse kit or Fuse Requirements earlier in this document.
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.

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 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 dock using strain relief cable clamps, and place the Thor VM3 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 VM3 User's Guide*, available at [www.honeywellaidc.com](http://www.honeywellaidc.com) for further information.)
11. Move the power switch on the back of the dock to the on position.
12. Press the power button on the front of the Thor VM3.

# ***Setting up the Thor VM3 Software***

*Note: Have the following information available before setting up your Thor VM3:*

- Network ID (SSID) of the Access Point
  - Wireless network authentication credentials
1. Connect the Thor VM3 to an external power source.
  2. Press the Power button.
  3. Attach a USB keyboard during the setup process.
  4. Accept the EULA.
  5. Calibrate the touch screen (resistive touch screen only, not applicable to PCAP touch screen).
  6. Set the date and time.
  7. Edit the radio parameters.
  8. Edit Enterprise Control Panel settings (i.e.: Bluetooth Scanning, Enterprise Settings, etc.).
  9. Edit the RFTerm or Enterprise TE Terminal Emulation parameters (optional).
  10. Perform a reboot.

## ***Bluetooth***

Refer to the *Thor VM3 User's Guide*, available at [www.honeywellaidc.com](http://www.honeywellaidc.com), for information when using the Thor VM3 with Bluetooth.

# ***Wireless Network Configuration***

To configure the WLAN connection use the Honeywell Wireless Configuration Utility (WCU).

1. Tap **Admin Login**.
2. Enter the password. The default password is **Honeywell**.
3. Tap **New** to create a new profile.
4. Select **Create an auto profile**.
5. Enter a profile name and the SSID of the network.
6. Tap **Next**.
7. Tap **Change connection settings**.
8. Complete the **Security** tab by selecting security and encryption types.
9. Additional entries may be required based on security and encryption chosen.
10. Tap **OK** when completed.
11. Tap **Connect to...** to connect to the network.

For more details see the *Thor VM3 User's Guide* available at [www.honeywellaidc.com](http://www.honeywellaidc.com).

## ***Connecting to Terminal Emulation***

The Thor VM3 supports terminal emulators such as RFTerm® and Enterprise TE.

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 VM3 is connected to the network.
  2. Launch the terminal emulation program.

For more details refer to the *RFTerm User's Guide* or the *Enterprise TE User Guide*, available at [www.honeywellaidc.com](http://www.honeywellaidc.com).

## ***Rebooting the Thor VM3***

To reboot the Thor VM3 with Windows Embedded Compact 7:

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

To reboot the Thor VM3 with all other Windows operating systems:

1. Select **Start > Shutdown > Restart** to reboot.

When the Thor VM3 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](http://www.honeywellaidc.com)

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## ***Technical Assistance***

Contact information for technical support, product service, and repair can be found at [www.honeywellaidc.com](http://www.honeywellaidc.com).

## ***Limited Warranty***

Refer to [www.honeywellaidc.com/warranty\\_information](http://www.honeywellaidc.com/warranty_information) for your product’s warranty information.

## ***User Documentation***

To download the Thor VM3 user documentation go to [www.honeywellaidc.com](http://www.honeywellaidc.com).

