

NPB-MDM Option INSTALLATION SHEET

This document covers the mounting and wiring of the NPB-MDM option card in a Vykon® JACE controller (JACE-200/600, SEC-J-x01, or J-202-XPR series).

Table 1 NPB-MDM option description.

Description	Notes / COM Port Assignment
56Kbps Auto-dial, Auto-answer, Modem with one RJ-11 connector for phone line.	<p>In all but the J-202-XPR, this option card must be installed in Option Slot 1 (note the J-202-XPR only has <i>one</i> option card slot).</p> <ul style="list-style-type: none"> The NPB-MDM option is not supported in any JACE with a GPRS modem option. Only one NPB-MDM option is supported. <p>An NPB-MDM always operates as COM1, and <i>disables</i> the RS-232 base serial port on the JACE controller.</p> <p>See Figure 2 on page 2 for location of Option Slots 1 and 2 on a JACE-200/600.</p>

Caution This modem may require testing and certification in some European and Asian countries prior to connecting to the Public Switched Telephone Network. Please refer to the particular country's telephone authorities for further information.

Refer to the appropriate JACE® mounting and wiring document for further JACE installation details.

Included in this Package

Included in this package you should find the following items:

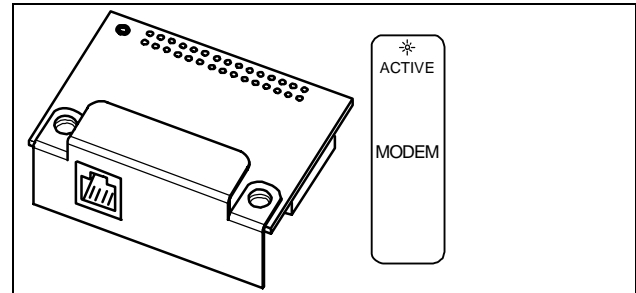
- NPB-MDM option card, connector end plate.
- This *NPB-MDM Option Installation Sheet*, Part Number 10622 Rev. 2

Material and Tools Required

The following tools and supplies may be required for installation:

- #2 phillips screwdriver: used to install the NPB-MDM.
- #1 phillips screwdriver: to remove and refasten J-202-XPR covers (if applicable).

Figure 1 NPB-MDM option.



Mounting

Warning Power to the JACE must be OFF when installing or removing option cards, or damage will occur! Also, you must be very careful to plug any option card into its connector properly (pins aligned).

Note For any JACE with two option slots, the NPB-MDM option is for Option Slot 1 only. If another option card already exists in Slot 1, you must move it to Option Slot 2.

See notes in [Table 1](#), and “Serial Shell Notes,” page 2.

Procedure 1 Mounting NPB-MDM option card on a JACE.

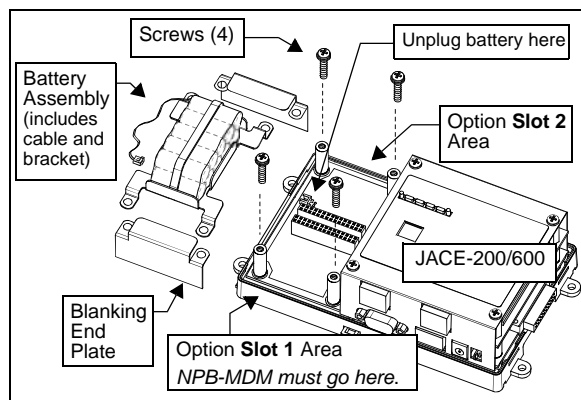
- Remove power from the JACE—see the previous [Warning](#). Wait for all LEDs on the unit to be Off.
- Remove the JACE cover or covers (J-202-XPR). For all but the J-202-XPR, press in the four tabs on both ends of the unit, and lift the cover off.

Note If accessory modules are plugged into the JACE, you may need to slide them away from the unit to get to the cover tabs.

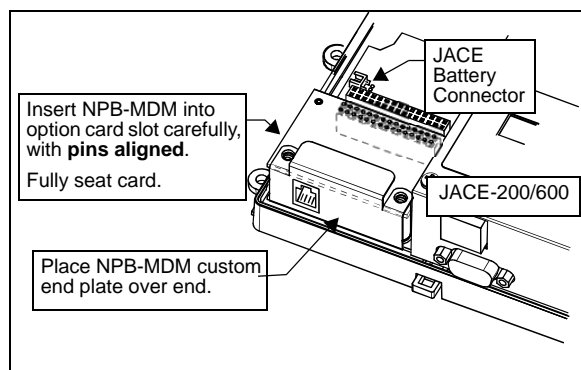
For the J-202-XPR, first remove the right cover, then the left cover, retaining the two screws that secure each cover.

Material and Tools Required

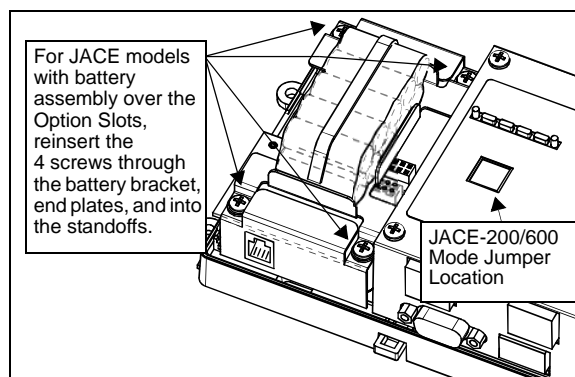
- For all but the J-202-XPR, remove the battery and bracket assembly by taking out the screws holding it in place, setting the screws aside for later. Unplug the battery from the connector on the JACE. See [Figure 2](#) for an exploded view.

Figure 2 Remove battery assembly.

- Remove the Slot 1 blanking end plate, or if a J-202-XPR, the only option slot blanking plate. (Retain the blanking end plate in case the option card must be removed at a later date.)
- Carefully insert the pins of the NPB-MDM into the socket of the option connector. The mounting holes on the option board should line up with the standoffs on the base board. If they do not, the connector is not properly aligned. Press until the option card is completely seated.
- Place the custom end plate that came with the NPB-MDM over its connector (see [Figure 3](#)).

Figure 3 NPB-MDM inserted, end plate on top.

- Plug the battery cable into the battery connector on the JACE (see [Figure 3](#) for location).
- For all but the J-202-XPR, set the battery and bracket assembly back over the option card slots, with mounting holes aligned with the standoffs. Screws enter holes in the battery bracket first.

Figure 4 Re-fasten screws.

- Place the screws through the end plate(s), and into the standoffs on the base board. Using a screwdriver, hand tighten screws.
- Replace the JACE cover or covers (J-202-XPR). If accessory modules were unplugged from the JACE, plug them back as before, and secure.

Wiring

Connect a standard RJ-11 telephone cable to the connector on the NPB-MDM, and the other end to a working PSTN (dialup) telephone receptacle.

LED

A single LED is visible on the top of the NPB-MDM option card (cover must be removed from JACE). This LED is shown on the top label of the the NPB-MDM (see [Figure 1](#)), and operates as follows:

- ACTIVE (green)** — When lit, it indicates that the modem is connected to another modem (a carrier is detected). In this case, the JACE serial port LEDs (on its lower base board) should indicate transmit and receive activity.

Serial Shell Notes

If an NPB-MDM is installed, and the JACE's "mode jumper" (see [Figure 4](#)) is put in "Serial Shell" position, the RS-232 port on the JACE's base board becomes active immediately following a reboot. This allows an RS-232 connection to the "serial shell" for debugging purposes. The NPB-MDM is inoperative during this period.

To re-enable the modem, you must put the mode jumper back in the "Normal" position, and reboot the JACE again.