



# Installing Rocketport PCI Cards

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## Introduction

Miranda's HB0302-00 is a RocketPort<sup>1</sup> Plus uPCI RS-422 PCI card. The PCI card is an 8-port SMPTE serial port expansion card that allows you to connect up to eight serial devices to an NV9000 system controller. The card provides eight serial ports in a single PCI card slot. The card is compatible with all current 3.3 V and 5.0 V PCI bus architectures.

This guide provides instructions for installing this PCI card (and similar PCI cards) in the NV9000. Installation occurs in two steps:

- Installing the PCI card
- Installing (or updating) the Rocketport driver on the NV9000.

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## Installing the RocketPort Card

Follow these steps to install the PCI card:

- 1 Obtain the PCI card to install.
- 2 Power down the NV9000 controller and unplug its AC power cords. Orient the controller so that it is facing up and the rear is pointing towards you, as shown in Figure 1-1.
- 3 Remove the external screws that attach the top plate to the controller. There are two screws near the front of the controller and one thumbscrew at the rear, as shown in Figure 1-1. Remove the top plate and set it aside.



Remove external screws (3 places)

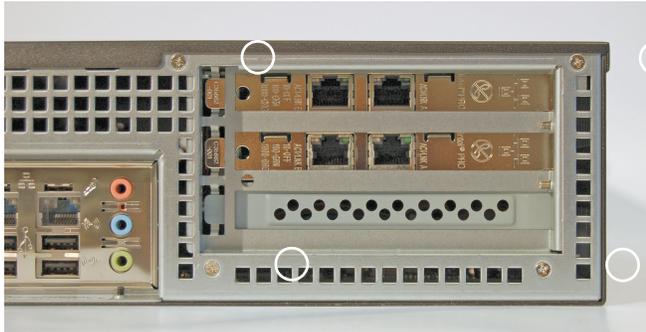
Figure 1-1. Screws on Controller Top Plate

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1. RocketPort is a registered trademark of Comtrol Corporation ([www.comtrol.com](http://www.comtrol.com)).

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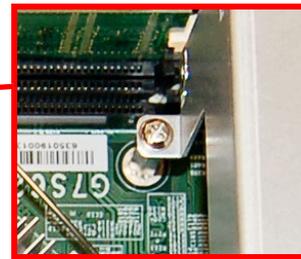
- 4 Remove the four external screws on the back plate that hold the card module in place, as shown in Figure 1-2:



Remove external screws  
(4 places)

**Figure 1-2. Screws on Controller Backplate**

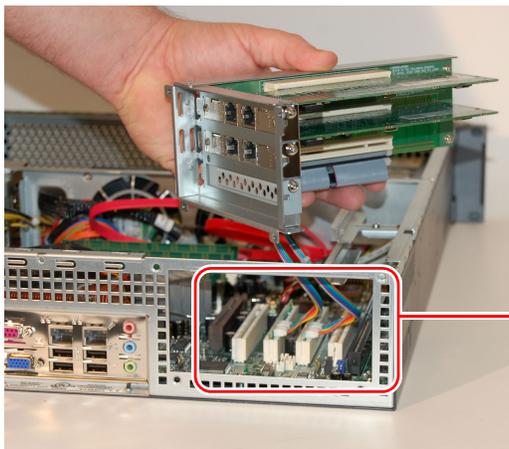
- 5 Remove the internal screw that holds the PCI riser assembly in place:



Remove internal screw (1 place)

**Figure 1-3. Internal Screw on PCI Riser Assembly (Full View)**

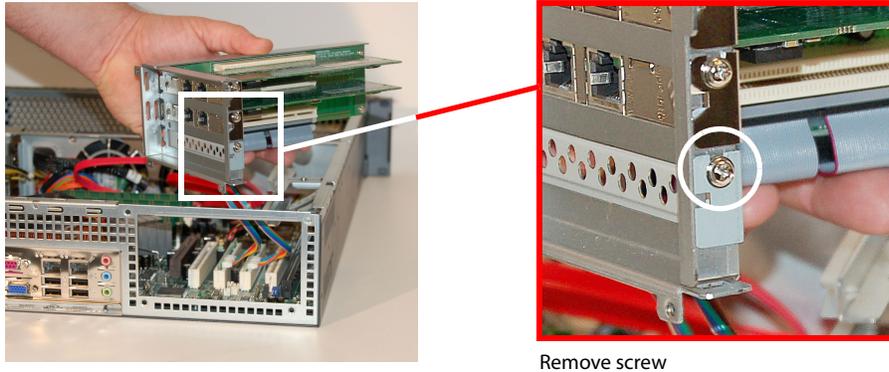
- 6 Gently remove the PCI riser assembly from the frame, as shown in Figure 1-4. Do not detach the wires! Carefully remove the ribbon cable from the PCI slot on the motherboard while keeping the other cables on the other 2 PCI slots attached. The ribbon cable connects from the riser assembly to a PCI slot on the motherboard.



Do not disconnect the wires.

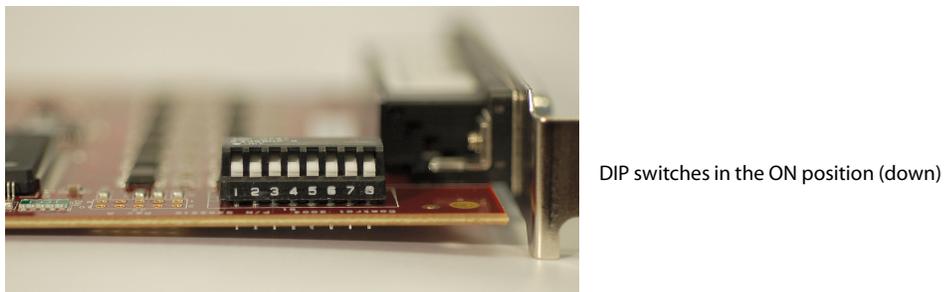
**Figure 1-4. PCI Riser Assembly Removed from Frame**

- 7 Remove the screw located at the bottom of the assembly, as shown in Figure 1-5. This holds the temporary grill in place. Once the screw is removed, the grill is detached leaving an opening for the connection port for the PCI card being installed.



**Figure 1-5. Screw Holding Temporary Grill in Place**

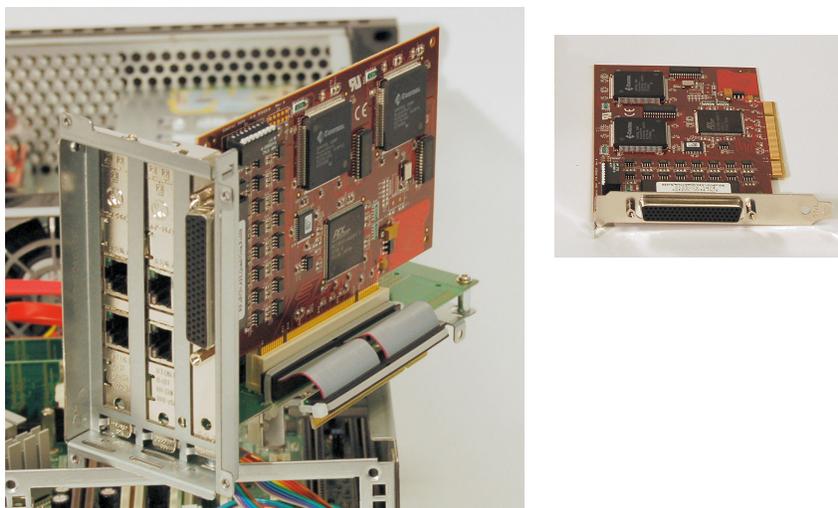
- 8 Unpack the PCI card. Do not drop or mishandle the card or stack it on another circuit board. If a you cannot easily remove or insert a card, stop the installation and contact Miranda Technical Support.
- 9 On the PCI card, verify that all DIP switches are in the 'ON' (down) position, as shown in Figure 1-6.



**Figure 1-6. DIP Switches on PCI Card**

- 10 Gently slide the PCI card into the left-hand slot (as you are facing the PCI riser assembly from the front), as shown in Figure 1-7. Insert the card with circuitry and the DIP switches facing right and the HD78 connector inserted in the opening that previously held the temporary grill. (There should only be one slot available for installation.)

Make sure that card is fully inserted in the PCI slot.



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## Figure 1-7. PCI Card installed in PCI Riser Assembly (Not Fully Inserted Yet)

- 11 Reinsert the screw removed in step 7.
- 12 Reinsert the PCI riser assembly in the frame. It is helpful to gently insert the module under the right-hand side of the metal lip of the frame first and then maneuver the PCI riser assembly into the plastic rails, as shown in figures 1-8 and 1-9.

Make sure that the ribbon cable from the daughter card assembly is fully inserted into the PCI slot on the motherboard. (See Figure 1-4.)

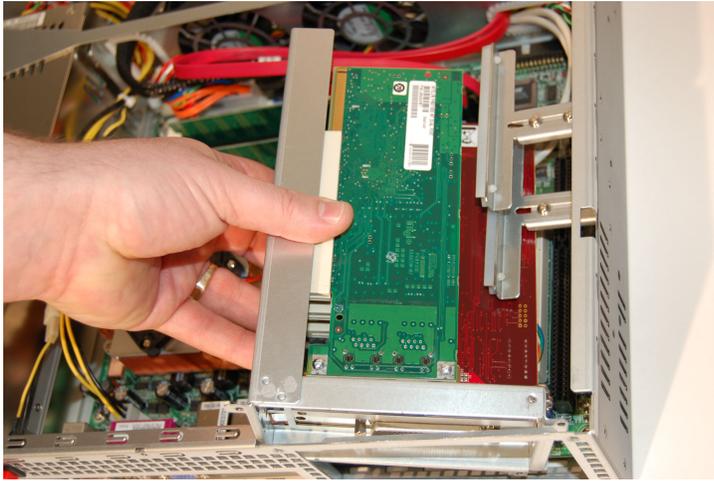


Figure 1-8. Slide PCI Riser Assembly Back into Frame

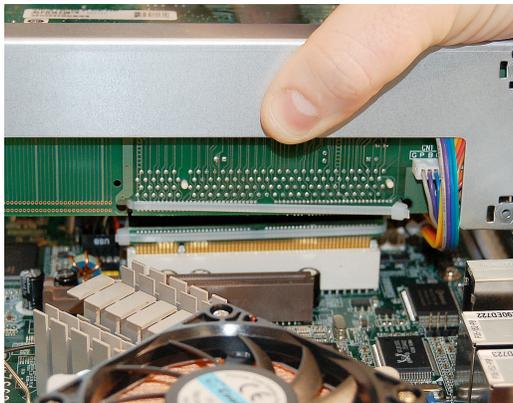


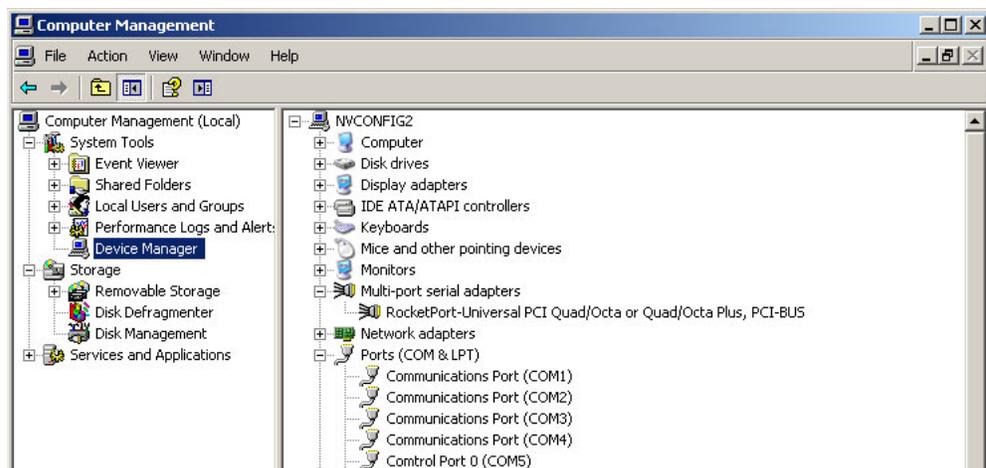
Figure 1-9. Card Connectors Being Seated

- 13 Reinsert the internal screw removed in step 5.
- 14 Facing the rear of the frame, reinsert the four external screws removed in step 4.
- 15 Replace the top plate removed in step 3.
- 16 Reinsert the three external screws removed in step 3.
- 17 Reconnect power to the frame, as noted in step 2.

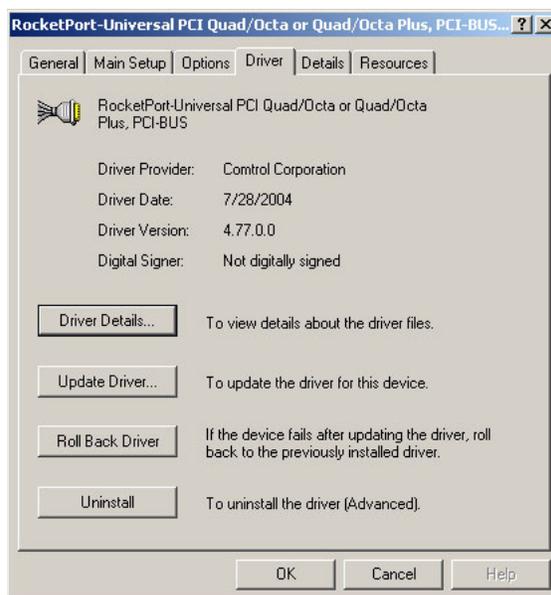
## Installing the RocketPort Driver

Follow these steps to update the NV9000 controller:

- 1 Power up the NV9000 controller (with its newly installed PCI card). Log on. After you log on, the Hardware Update Wizard's 'Welcome' window should appear. If it does, skip step 2.
- 2 If the wizard does not appear at startup, go to the 'Device Manager' as follows:
  - a Right-click on the NVCONFIG CONTROLLER icon on the desktop.
  - b Select 'Manage' from the context menu that appears.
  - c Choose 'Device Manager'.
  - d On the 'Device Manager' page, locate and expand 'Multi-Port Serial Adapters'. If the driver is not yet installed, a yellow icon appears.



- e Double-click on RocketPort-Universal PCI Quad/Octa or Quad/Octa Plus, PCI-BUS. A Rocketport window appears:



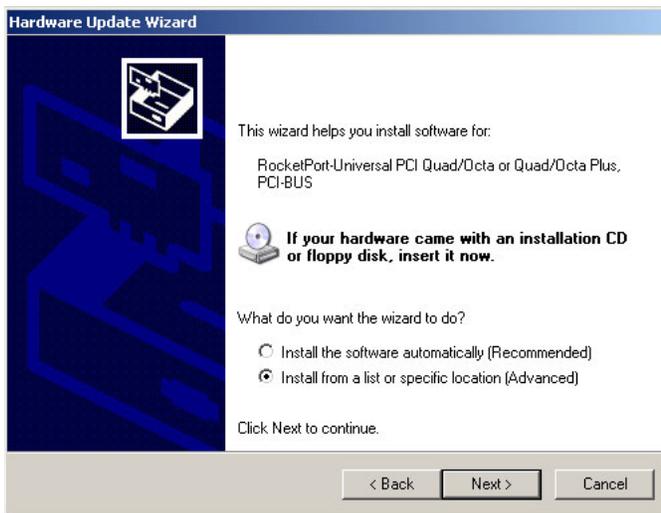
- f Choose the 'Driver' tab. Then, click the 'Update Driver' button. The Hardware Update Wizard appears. You can now proceed through steps 3–7.

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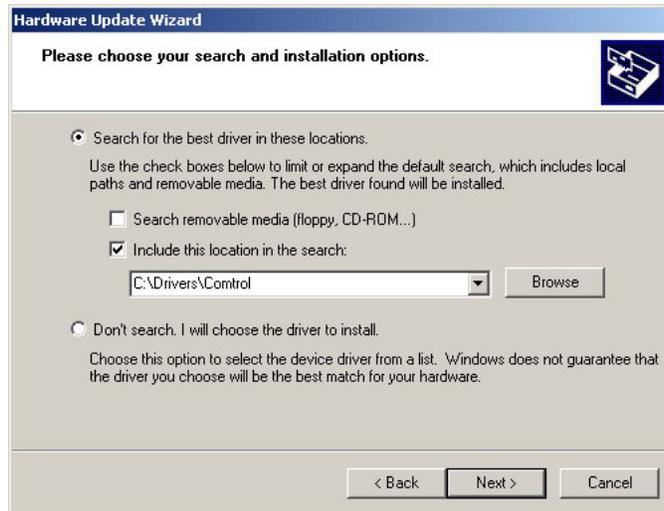
3 In the 'Welcome' window, select the 'No, not this time' option and click 'Next':



4 In the second window, select the 'Install from a list or specific location (Advanced)' and click 'Next':



- 5 In the 'Please choose your search and installation options' window, make sure that the 'Search for the best driver in these locations' radio button is selected. Check the 'Include this location in the search' check box and enter C:\Drivers\Control in the field provided.



Click 'Next'.

- 6 In the warning window, click 'Continue Anyway':



- 7 The 'Hardware Update Wizard' installs the software. When the installation is complete, the 'Completing the Hardware Update Wizard' window appears. Click 'Finish' to exit.

The RocketPort PCI card is now installed, with its driver, and is ready to use in your NV9000 controller.