



About Cautions

 **CAUTION:** A CAUTION indicates a potential for property damage, personal injury, or death.

Installing the DRAC 4/P

 **NOTICE:** Read these installation instructions before installing your DRAC 4/P expansion card.

 **CAUTION:** Many repairs may only be done by a certified service technician. You should only perform troubleshooting and simple repairs as authorized in your product documentation, or as directed by the online or telephone service and support team. Damage due to servicing that is not authorized by Dell is not covered by your warranty. Read and follow the safety instructions that came with the product.

This document provides special instructions for installing the Dell™ Remote Access Controller 4/P (DRAC 4/P) card into a Dell PowerEdge™ system.

 **CAUTION:** To help prevent damage to the DRAC 4/P card, ensure that the system is unplugged from its AC power source before installing the card.

- 1 Shutdown the system and unplug it from its AC power source.

Your system's *Product Information Guide* provides a sequence of safety steps that you should perform before opening the cover of your system, including turning off the system and disconnecting it from its AC power source. However, the DRAC 4/P card can be damaged if it is installed in the system that is turned off, but still attached to its AC power supply. Ensure that the system is unplugged from its AC power supply before installing the DRAC 4/P card.

- 2 Open the system. See "Opening the System" in the *Installation and Troubleshooting Guide* for instructions.
- 3 Determine which expansion slot is most appropriate for the DRAC 4/P card.

Ideally, the DRAC 4/P card should be installed in the PCI expansion slot nearest the RAC connector on the system board. See "System Board Connectors" in "Jumpers, Switches, and Connectors" in the *Installation and Troubleshooting Guide* for an illustration of your system board's connectors.

- 4 Connect the DRAC 4/P card interface cable from the card to the system's RAC connector on the system board. See Figure 1.

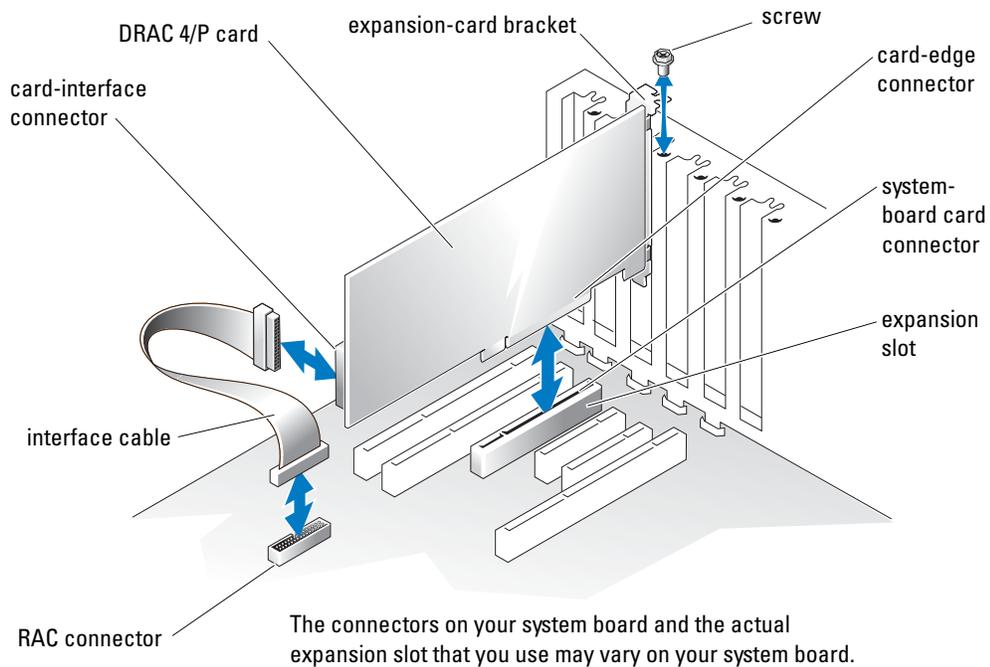
 **NOTE:** The interface cable and connectors are keyed and can be connected only one way.

- 5 Install the DRAC 4/P card into expansion slot:
 - a Position the DRAC 4/P card so that the card-edge connector aligns with the system-board card connector on the system board. See Figure 1.

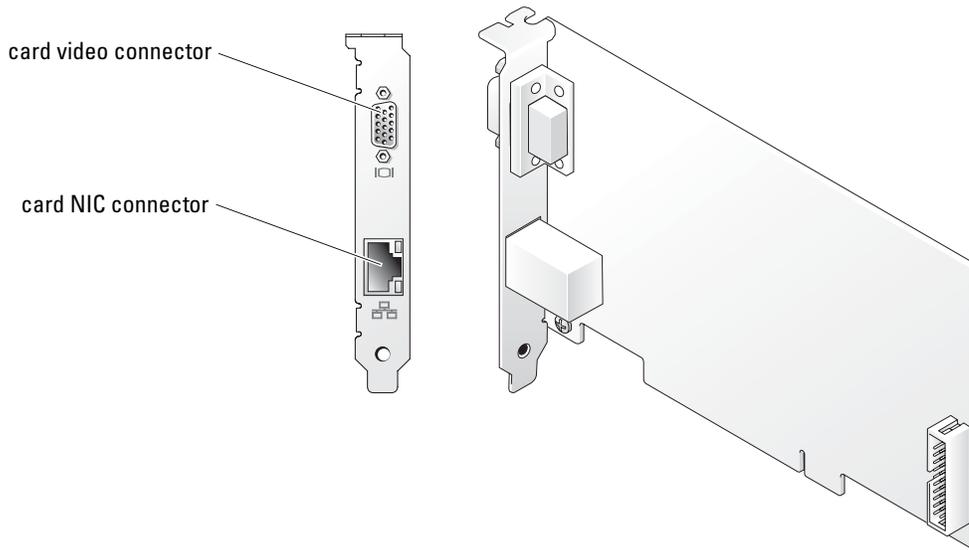


- b Insert the card-edge connector firmly into the system-board card connector until the card is fully seated.
-  **NOTE:** Some systems use a plastic bar to secure the expansion-card bracket to the back panel instead of a screw.
- c Install the screw that secures the expansion-card bracket to the back panel.
- 6 Close the system. See "Closing the System" in the *Installation and Troubleshooting Guide* for instructions.

Figure 1. Installing the DRAC 4/P Card



- 7 Connect the monitor cable to the card video connector on the DRAC 4/P card. See Figure 2. The monitor cable must be connected to the card video connector on the DRAC 4/P card—not to the system's integrated video connector.
- 8 Connect the network to the card NIC connector on the DRAC 4/P card. See Figure 2. The network cable must be connected to the card NIC connector on the DRAC 4/P card—not to the system's integrated NIC connector.
- 9 Reattach the system to its AC power source and turn on the system.

Figure 2. DRAC 4/P Video and NIC Connector Locations**10** Configure the DRAC 4/P card:

- a** During boot, the DRAC 4/P <Ctrl><d> setup program option appears. Press <Ctrl><d> and enter the DRAC 4/P setup program.
- b** Configure the DRAC 4/P as explained in the *Dell Remote Access Controller 4 User's Guide*.
- c** Exit the DRAC 4/P setup program. The system then continues its boot.

If you are running a Microsoft® Windows® operating system, the operating system detects several new DRAC 4/P-related devices as it starts. The drivers for those devices are located in one of the following paths under the **Systems Management** group on the *Dell OpenManage Server Assistant* CD:

Dell: Remote Access Controller - DRAC 4/P (Driver) Windows 2003 DRAC4 Drivers (Self Extracting Zip) or

Dell: Remote Access Controller - DRAC 4/P (Driver) Windows 2000 DRAC4 Drivers (Self Extracting Zip)

NOTE: The screen may blink several times as Windows starts and the Hardware Wizard discovers the new DRAC 4/P display adapter.

NOTE: Novell® NetWare® and Red Hat® Linux operating systems use native drivers.

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