

Dell™ Systems

Installing a Riser Board

安装提升板

Installation d'une carte de montage (carte riser)

Installation eines Riser-Boards

ライザボードの取り付け

라이저 보드 설치

Instalación de la tarjeta de ampliación



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Notes, Notices, and Cautions



NOTE: A NOTE indicates important information that helps you make better use of your computer.



NOTICE: A NOTICE indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.



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

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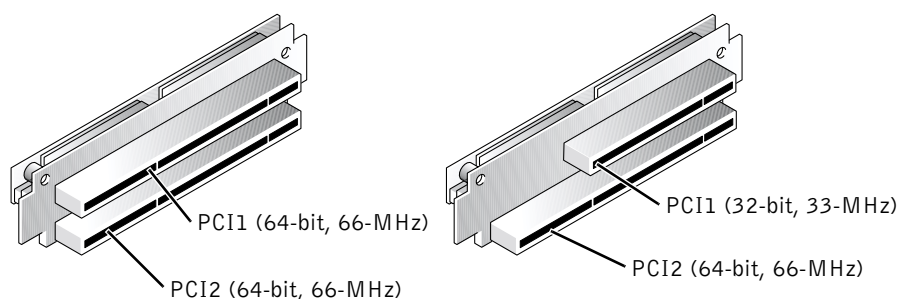
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This document explains how to replace the PCI riser board in your system. The riser board plugs into the RISER connector on the system board and is considered an extension of the system board.

Two different riser board configurations are available for your system (see Figure 1-1):

- Two 64-bit, 66-MHz expansion slots
- One 64-bit, 66-MHz expansion slot (PCI2) and one 32-bit, 33-MHz expansion slot (PCI1) for 5-V cards

Figure 1-1. Riser Board Configurations



You can install only half-length PCI cards in the lower expansion slot (PCI2) on the riser board. You can install a full-length expansion card in the upper expansion slot (PCI1) unless you have installed an optional server management card. In this case, neither slot accommodates a full-length card.

To replace the riser board in your system with a new riser board, perform the following steps.

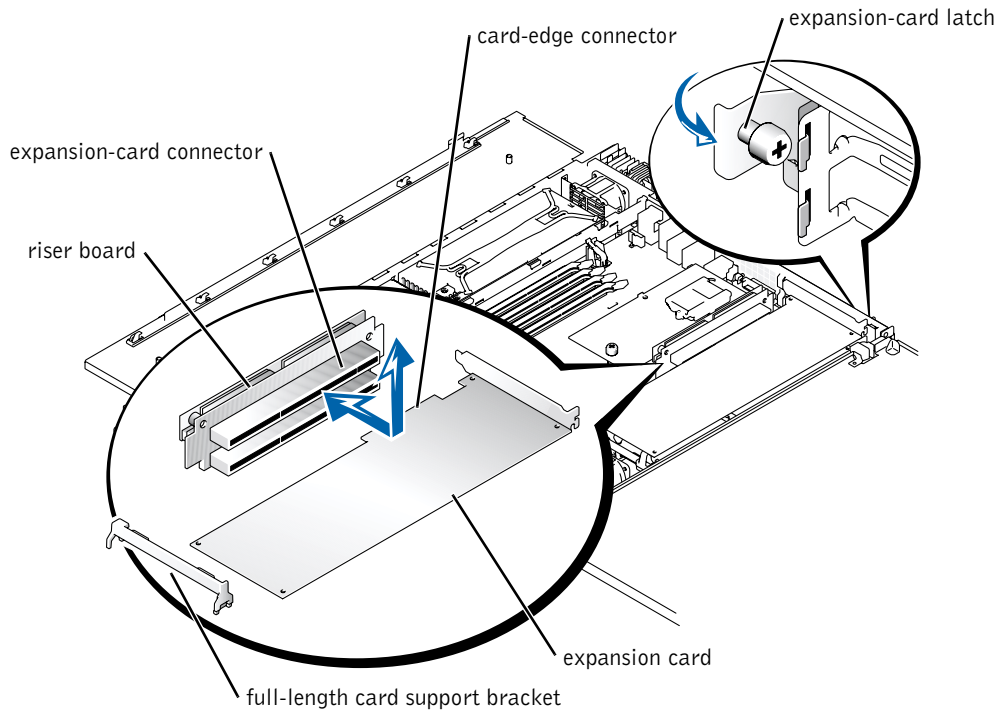
⚠ CAUTION: Before you perform this procedure, you must turn off the system and disconnect it from its power source. Only trained service technicians are authorized to remove the system cover and access any of the components inside the system. Read and follow all safety precautions in your *System Information* document.

⚠ CAUTION: Your system may have more than one power supply cable. To reduce the risk of electrical shock, you must disconnect all power supply cables before servicing the system. For more information, see "Safety First—For You and Your Computer" in your *Installation and Troubleshooting Guide*.

- 1 Turn off the system, including any attached peripherals, and disconnect the system from the electrical outlet.
- 2 Open the system doors (see "Opening the System Doors" in your system *Installation and Troubleshooting Guide*).

- 3 To remove any expansion cards installed in the system, perform the following steps:
 - a Loosen the captive thumbscrew and remove the expansion-card latch (see Figure 1-2).

Figure 1-2. Removing and Installing Expansion Cards



- b Disconnect any cables from the card.
 - c Grasp the expansion card by its edges, and then remove it from the expansion-card connector.
 - d If you are removing the card permanently, install a metal filler bracket over the empty expansion-slot opening.
- NOTE:** Installing a filler bracket over an empty expansion slot is necessary to maintain Federal Communications Commission (FCC) certification of the system. The brackets also keep dust and dirt out of the system and aid in proper cooling and airflow inside the system.
- e If a second expansion card is installed in the system, repeat steps b through d to remove the second card.

- 4** To remove the riser board, grasp the board by its edges and lift it from the riser board connector on the system board.
- 5** To install the new riser board, insert the card-edge connector on the riser board firmly into the connector on the system board until the board is fully seated.
- 6** To install expansion cards in the new riser board, perform the following steps:
 - a** Lower the card into the system.

If the card is a full-length card, you may need to guide the front edge of the card into the full-length card support bracket (see Figure 1-2).
 - b** Insert the card-edge connector firmly into the expansion-card connector on the riser board.
 - c** Connect any cables that should be attached to the card.

See the documentation supplied with the card for information about its cable connections.
 - d** If necessary, repeat steps a through c to install the second expansion card.
 - e** Replace and secure the expansion-card latch using the captive thumbscrew.
- 7** Close the system doors, reconnect the system and peripherals to their electrical outlets, and turn them on.