

Dell™ Systems

# Activating the RAID Controller

激活 RAID 控制器

Activation du contrôleur RAID

Aktivieren des RAID-Controllers

RAID コントローラの有効化

RAID 컨트롤러 활성화

Activación del controlador RAID



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Dell™ Systems

# Activating the RAID Controller



# 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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This document explains how to activate your system's optional integrated RAID controller. Your upgrade kit includes the RAID controller memory module, RAID controller hardware key, RAID battery, RAID software, and RAID software documentation.


 **CAUTION:** The power supplies in this system may produce high voltages and energy hazards, which can cause bodily harm. Only trained service technicians are authorized to open the system 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, turn off the system and disconnect all power supply cables before servicing the system.

 **CAUTION:** Replace the RAID battery only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions. See the *System Information* document for additional information.

 **NOTICE:** To avoid possible data loss, back up all data on the hard drives before changing the mode of operation of the integrated SCSI controller from SCSI to RAID.

## Before You Begin

 **NOTICE:** Before activating the RAID controller, update your BIOS and embedded server management (ESM) firmware to the latest versions.

Before shutting down your system prior to activating the RAID controller, perform these preliminary steps to ensure system compatibility with the controller:

- 1 Record the system configuration settings.

View the system configuration screens in the System Setup program and make a record of these settings. See the system *User's Guide* for instructions on using the System Setup program.

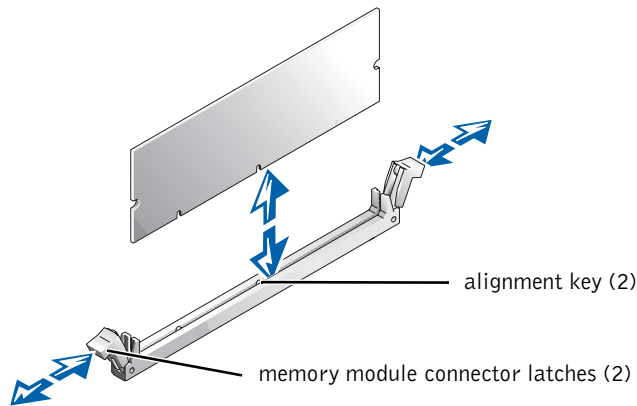
- 2 Update the BIOS and ESM firmware.

Update your system with the latest versions of the BIOS and ESM firmware, available at the Dell | Support website at [support.dell.com](https://support.dell.com).

## Activating the RAID Controller

- 1 Turn off the system, including any attached peripherals, and disconnect the system from the electrical outlet.
- 2 Remove the bezel.  
See "Removing the Bezel" in your *Installation and Troubleshooting Guide*.
- 3 Remove the cover.  
See "Removing the Cover" in your *Installation and Troubleshooting Guide*.
- 4 Push the latches on the RAID memory module connector down and outward to allow the memory module to be inserted into the connector (see Figure 1-1).  
See "Jumpers and Connectors" in your *Installation and Troubleshooting Guide* to locate the RAID memory module connector on the system board.

**Figure 1-1. Installing the RAID Controller Memory Module**



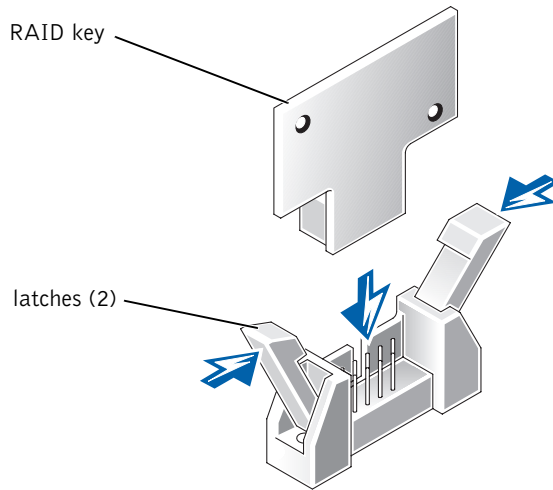
- 5 Align the memory module's edge connector with the alignment keys, and insert the memory module into the connector (see Figure 1-1).

The memory module connector has two alignment keys that allow the memory module to be installed into the connector in only one way.

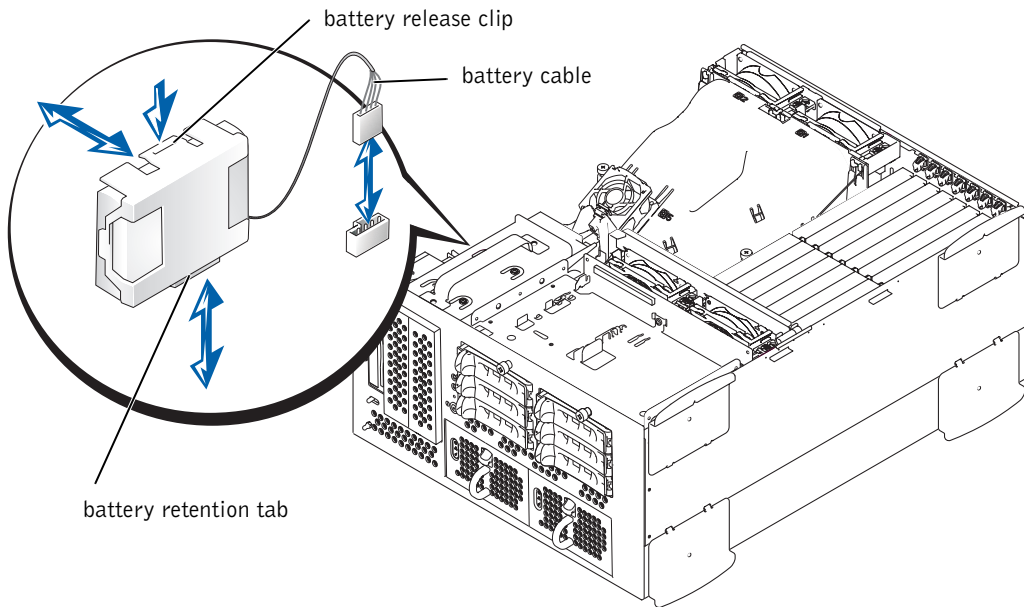
**NOTE:** The RAID controller memory module must be an unbuffered memory module, rated to run at 100 MHz or faster. Do not substitute registered memory modules such as those used for system memory.

- 6 Press down on the memory module with your thumbs while pulling up on the latches with your index fingers to lock the memory module into the connector (see Figure 1-1).
  - 7 Push the latches on the RAID hardware key connector down and outward to allow the key to be inserted into the connector (see Figure 1-2).
- See "Jumpers and Connectors" in your *Installation and Troubleshooting Guide* to locate the RAID hardware key connector on the system board.

**Figure 1-2. Installing the RAID Hardware Key**



- 8 Insert the RAID hardware key into its connector on the system board and secure the key with the latches on each end of the connector (see Figure 1-2).
- 9 Press down on the hardware key with your thumbs while pulling up on the latches with your index fingers to lock the hardware key into the connector.
- 10 Connect the battery cable to the RAID battery cable connector on the system board.  
See "Jumpers and Connectors" in your *Installation and Troubleshooting Guide* to locate the RAID battery cable connector on the system board.
- 11 Hook the retention tab on the bottom of the battery into the slot in the chassis side wall, and then snap the battery release clip into place (see Figure 1-3).
- 12 Replace the system cover.  
See "Replacing the Cover" in your *Installation and Troubleshooting Guide*.

**Figure 1-3. Removing and Installing the RAID Battery**

- 13** Reconnect the system to its electrical outlet and turn the system on, including any attached peripherals.
- 14** Close the system bezel.  
See "Replacing the Bezel" in your *Installation and Troubleshooting Guide*.
- 15** Enter the System Setup program and verify that the setting for the SCSI controller has changed to reflect the presence of the RAID hardware.  
See "Using the System Setup Program" in your *User's Guide*.
- 16** Update the ROMB firmware.  
Update the system with the latest version of the ROMB firmware, available at the Dell | Support website at [support.dell.com](http://support.dell.com).
- 17** Install the RAID software.  
See the RAID controller documentation for more information.
- 18** Configure RAID arrays on the SCSI hard drives.  
See the RAID software documentation for more information.