

Dell™ Systems

Activating the Integrated 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 the integrated RAID controller on Dell™ PowerEdge™ 1850, 2800, and 2850 systems. Your upgrade kit includes a RAID controller memory module, RAID hardware key, RAID battery, and RAID software.

Before you perform the following procedures, ensure that your PowerEdge 1850 riser card supports the RAID option. If a memory module connector is not present on the riser card, you have purchased the standard riser card, which does not support the RAID option. To use the RAID option, replace the standard riser card with the optional ROMB PCI-X or PCI-Express riser card. See the *Installation and Troubleshooting Guide* to identify the type of riser card that is installed in your system.



CAUTION: Only trained service technicians are authorized to remove the system cover and access any of the components inside the system. See your *Product Information Guide* for complete information about safety precautions, working inside the computer, and protecting against electrostatic discharge.



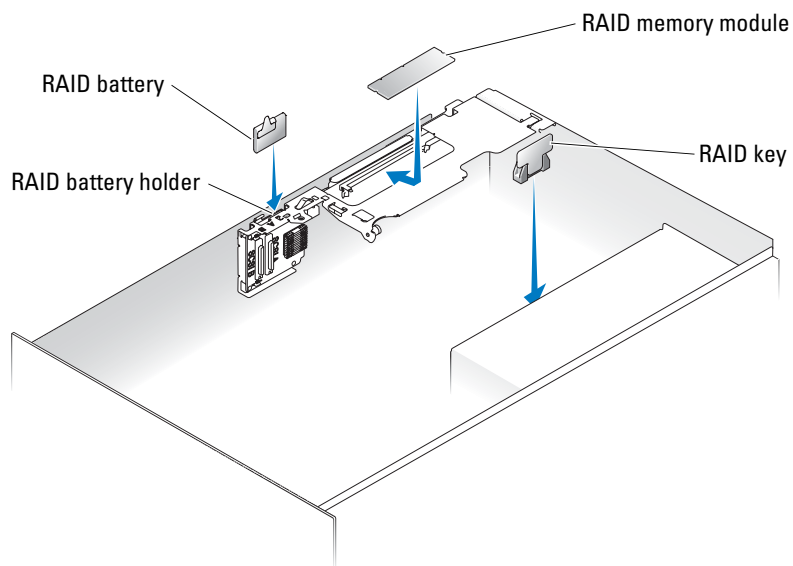
NOTICE: To avoid possible data loss, back up all data on the hard drives before changing the mode of operation of the integrated SCSI controller from SCSI to RAID.



NOTE: See your *Installation and Troubleshooting Guide* for detailed instructions on removing or replacing components.

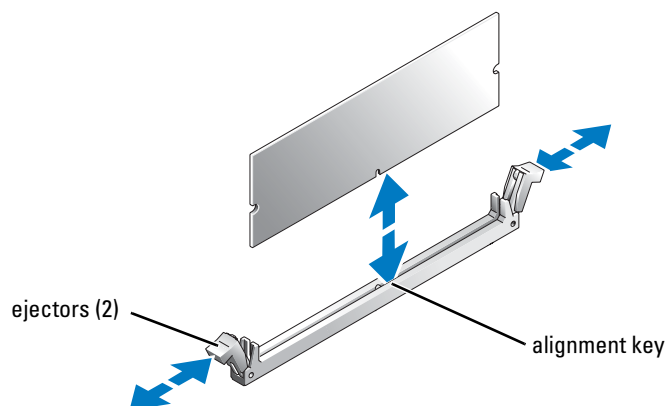
- 1 Remove the bezel (if applicable).
- 2 Turn off the system, including any attached peripherals, and disconnect the AC power from the electrical outlet.
- 3 Open the system.
- 4 If you have a PowerEdge 1850 system, remove the riser card insulator by lifting the two blue rivets at each end of the insulator, then lift the insulator off of the riser card.
If you have a PowerEdge 2800 system, go to step 5.
If you have a PowerEdge 2850, remove the riser card.
- 5 Locate the RAID memory module connector on the riser card. See Figure 1-1.

Figure 1-1. Locating the RAID Memory Module



- 6 Push the ejectors on the RAID memory module connector down and outward to allow the memory module to be inserted into the connector. See Figure 1-2.

Figure 1-2. Installing the RAID Controller Memory Module



- 7 Locate the memory module that is included with the upgrade kit.
- 8 Align the RAID memory module's edge connector with the alignment key, and insert the memory module into the connector. See Figure 1-2.

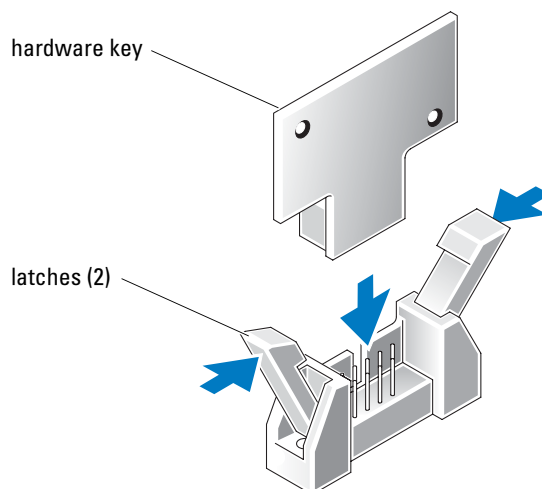
NOTE: Do not substitute unbuffered DDR 2 memory modules such as those used for system memory. Use the memory module supplied in the RAID upgrade kit.

- 9 Press on the memory module with your thumbs while pulling up on the ejectors with your index fingers to lock the memory module into the connector.
- 10 Locate the RAID hardware key connector on the system board. See the system information label on the inside of the system cover for the location of the RAID key connector.
- 11 If you have a PowerEdge 1850 system, go to step 13.
- 12 If you have a PowerEdge 2800 system, remove the memory cooling shroud by lifting the release latch and sliding the shroud forward.
If you have a PowerEdge 2850 system, lift up the memory cooling shroud.
- 13 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 1-3.
- 14 If you have a PowerEdge 2800 or 2850 system, replace or lower the memory cooling shroud.
- 15 If you have a PowerEdge 1850 system, install the RAID battery into the RAID battery holder with the battery cable pointing toward the back of the system.
If you have a PowerEdge 2800 system:
 - a Position the RAID battery over the RAID battery holder with the battery cable pointing toward the front of the system.
 - b Insert the cable connector through the notch in the riser, which is adjacent to the SCSI connector on the riser.
 - c Install the RAID battery into the RAID battery holder.
If you have a PowerEdge 2850 system:
 - a Position the RAID battery over the RAID battery holder with the battery cable pointing toward the front of the system.
 - b Route the battery cable through the battery cable securing clip.
 - c Install the RAID battery into the RAID battery holder.
See the *Installation and Troubleshooting Guide* for more information.



NOTE: If you are replacing a RAID battery, see the "Battery Disposal" section in your *Product Information Guide* for important battery disposal instructions.

- 16 Connect the RAID battery to the RAID battery cable connector on the riser card.

Figure 1-3. Installing the RAID Key

- 17** If you have a PowerEdge 1850 system, place the plastic riser card insulator over the riser card and press down on the two plastic rivets to secure the insulator.
If you have a PowerEdge 2800 system, go to step 18.
If you have a PowerEdge 2850 system, replace the riser card.
- 18** Close the system.
- 19** Reconnect the system to its electrical outlet and turn on the system, including any attached peripherals.
- 20** Enter the System Setup program and verify that the setting for the SCSI controller has changed to reflect the presence of the RAID hardware.
- 21** Install and configure the RAID software. See your RAID documentation for more information.
- ➡ NOTICE:** The newly-installed RAID battery must be charged for 3 to 4 hours of system operation before you can operate the RAID controller in write-back mode.
- 22** Install the bezel (if applicable).