



Dell™ PowerEdge™ 1550 and PowerApp™ 120 Systems — PERC 3/DC Cable Installation

This document provides updated information for installing the Dell PowerEdge Expandable RAID Controller 3/Dual Channel (PERC 3/DC) in your Dell PowerEdge 1550 or PowerApp 120 system.

The PERC 3/DC kit included with your system contains two small computer system interface (SCSI) cables that connect your PERC 3/DC card to the internal SCSI backplane board in your system. A description of these cables and their application is provided in Table 1.

Table 1. Cable Description

| Cable Length | Application |
|--------------|---|
| Short cable | PowerEdge 1550 systems and PowerApp 120 systems |
| Long cable | All other supported systems |

To avoid interference with system components and operation, be sure to use the short SCSI cable when installing the PERC 3/DC card in your PowerEdge 1550 or PowerApp 120 system.

Installing the PERC 3/DC Card in Your System

To install the PERC 3/DC card in a PowerEdge 1550 or PowerApp 120 system, perform the following steps.



WARNING: Before you install the PERC 3/DC card, you must turn off the system and disconnect it from the electrical outlet. For more information, see “Safety First—For You and Your Computer” in the *System Information* document that came with your system.

1. Turn off the system, including any attached peripherals, and disconnect the system from the electrical outlet.



2. Prepare the PERC 3/DC card for installation, and open the system cover. For instructions, see your system's *Installation and Troubleshooting Guide*.

3. Disconnect the power supply cable from the system board.



NOTE: Disconnecting the power supply cable will facilitate cable installation in step 9.

4. Remove the SCSI backplane board from the chassis. For instructions, see your system's *Installation and Troubleshooting Guide*.

5. Connect one end of the short cable to the SCSI backplane board connector.



NOTE: If necessary, remove the old cable from the system board to the SCSI backplane board before proceeding to step 6.

6. Reinstall the SCSI backplane board in the chassis. For instructions, see your system's *Installation and Troubleshooting Guide*.

7. Route the PERC 3/DC SCSI cable through the opening in the fan bracket and attach the connector to the PERC 3/DC card.



NOTE: To avoid damage to the cable by the sliding system cover, make sure that the SCSI cable rests on the bottom of the chassis between the system board and the power supply.

8. Install the PERC 3/DC card into peripheral component interconnect (PCI) slot 1, and then go to step 9. If an existing PCI card is installed in PCI slot 1, perform the following steps:
 - a. Loosen the existing PCI card thumbscrews at the back of the chassis.
 - b. Grasp the existing PCI card in PCI slot 1 by its top corners and carefully remove it from the PCI slot 1 connector.
 - c. Insert the existing PCI card firmly into the PCI slot 2 connector until the card is fully seated.
 - d. Tighten the existing PCI card thumbscrews at the back of the chassis.
 - e. Grasp the PERC 3/DC card by its top corners and insert the card firmly into PCI slot 1 until the card is fully seated.
 - f. Tighten the PERC 3/DC card thumbscrews at the back of the chassis.
9. Reconnect the power cable to the system board, ensuring that the SCSI cable is located beneath the power cable to damage from the sliding system cover.
10. Connect the SCSI cables to the PERC 3/DC card and the existing PCI card, if applicable.
11. Close the system cover. For instructions, see your system's *Installation and Troubleshooting Guide*.

12. Follow the instructions that came with your PERC 3/DC card to configure the card for your system.



NOTES: Be sure to reconfigure the existing PCI card in PCI slot 2, if needed. For configuration information, see the documentation provided with the card.

For more information on installing expansion cards and redundant array of independent disks (RAID) controllers in your system, see your system's Installation and Troubleshooting Guide.

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