Intel® RAID Controller RS25AB080 Quick Start User's Guide

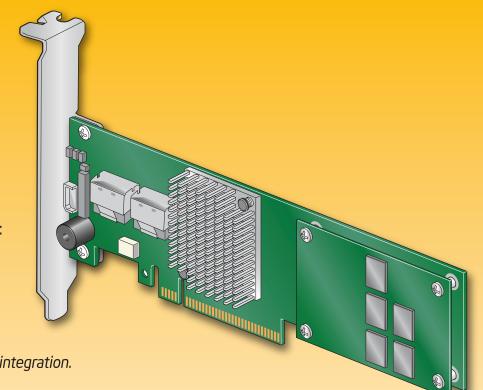
This guide contains step-by-step instructions for installing the Intel® RAID Controller RS25DB080 and information on using the BIOS setup utility to configure a single logical drive array and install the driver into the operating system.

For more advanced RAID configurations, or to install with other operating systems, please refer to the Hardware User's Guide.

These guides and other supporting documents (including a list of supported server boards) are also located on the web at: http://www.intel.com/p/en_US/support/server/

If you are not familiar with ESD (Electrostatic Discharge) procedures used during system integration, see your Hardware Guide for complete ESD procedures. For more details on Intel® RAID controllers, see: www.intel.com/go/serverbuilder.

Read all cautions and warnings first before starting your RAID Controller integration.





Install the RAID Controller

A Power down the system and disconnect the

Remove the system cover and any

other pieces to access the

PCI Express* slot.

Warning

Read all caution and safety statements in this document before performing any of the instructions. Also see the *Intel®* Server Board and Server Chassis Safety Information document at: http://www.intel.com/support/ motherboards/server/sb/cs-010770.htm for complete safety information.

Warning

Installation and service of this product should only be performed by qualified service performed by qualified service personnel to avoid risk of injury from electrical shock or energy hazard.

Observe normal ESD [Electrostatic Discharge] procedures during system integration to avoid possible damage to server board and/or other components.

Tools Required



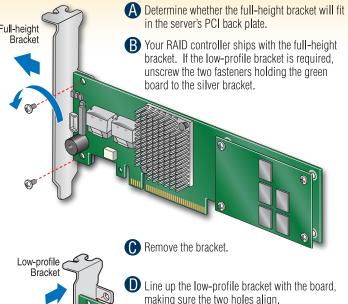
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What you will need to begin

- SAS 2.0 or SATA III hard disk drives (backward compatible to support SAS 1.0 or SATA II hard disk drives)
- Intel[®] RAID Controller RS25AB080 (SAS/SATA cables need to be prepared separately) SAS/SATA cable accessory kit (product code - AXXCBL740MS7P), which has two
- individual cables and can be ordered from Intel separately.
- Server board with a x8 or x16 PCI Express* slot (this controller is designed to meet the x8 PCI Express* Generation 2 specification and is backward compatible with generation 1 slots)
- Intel® RAID Controller RS25AB080 Resource CD
- Operating system installation media: Microsoft Windows Server 2003*, Microsoft Windows Server 2008*, Microsoft Windows 7*, Microsoft Windows Vista*, Red Hat* Enterprise Linux, or SUSE* Linux Enterprise Server, VMware* ESX Server 4, and so on.

Check the Bracket Height



Line up the low-profile bracket with the board, making sure the two holes align. Replace and tighter

the two screws.

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 Product information, including product briefs and technical product specifications

Firmly press the RAID Controller

into an available x8 or x16

to the system back panel.

Secure the RAID Controller bracket

PCI Express* Slot.

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3 Striping with dual Good Good High fault (50-88%)distributed parity tolerance Database, file, 1 per Striping across 50% Very Good mail servers mirror set good 1 per R5 Striping across R5 n-2 Excellent Very Database, file, (67-94%)mail servers arrays 2 per R6 Striping across R6 Very Critical data Good 60 (50-88%)good Audible Alarm Information Connect the RAID Controller For information about the audible alarm and how to silence or disable it, see the reverse side of this document. silver connector (ports 0-3).

Minimum **Physical**

Drives

2

3

Fail PDs

Allowed

NONE

Method

Striping (speed)

Mirroring

(redundancy)

Striping and distributed

parity (fault tolerance) (67-94%)

Speed

Very

good

Very

good

Speed

Good

Good

Excellent Excellent

Good Usage

High throughput

workstation

OS, apps entry level

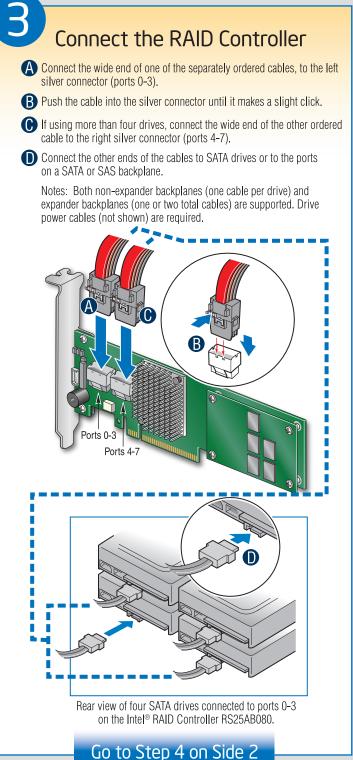
Data, web/media

server

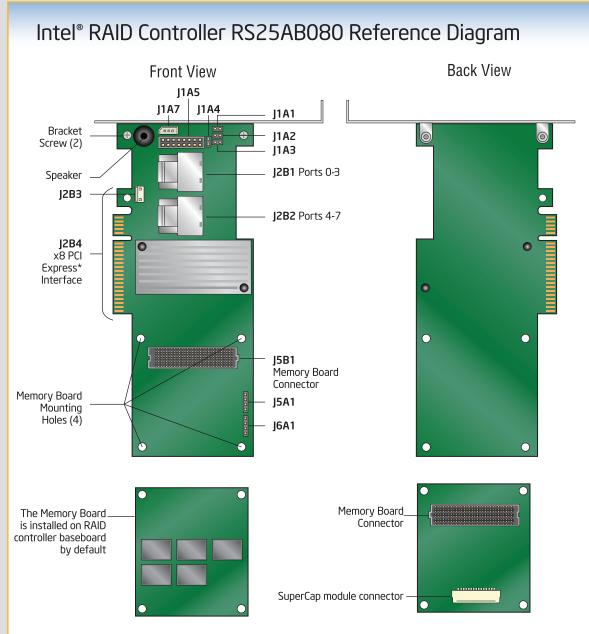
Capacity

100%

50%



Choosing the Right RAID Level



For more information on the jumpers referenced in this diagram, refer to user guide located on the web at: http://www.intel.com/p/en_US/support/server/.