Intel® RAID Controller RS2MB044 Quick Start User's Guide

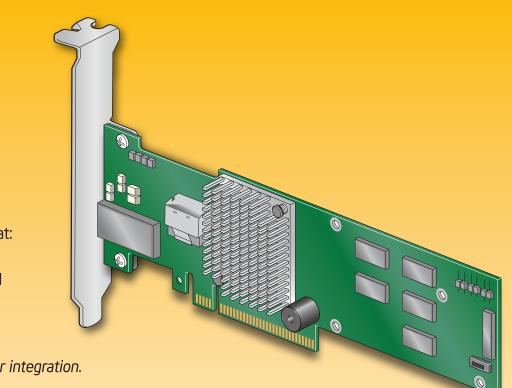
This guide contains step-by-step instructions for installing the Intel® RAID Controller RS2MB044 and information on using the BIOS setup utility to configure a single logical drive array and install the driver into the operating system.

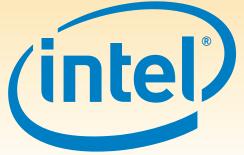
For more advanced RAID configurations, or to install with other operating systems, please refer to the Hardware User's Guide.

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





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 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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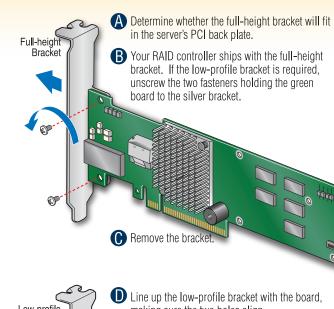
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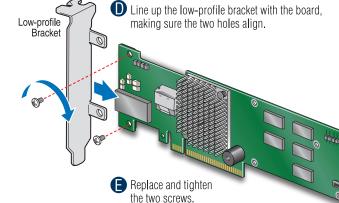


What you will need to begin

- SAS 2.0 or SATA II hard disk drives (backward compatible to support
- SAS 1.0 hard disk drives) Intel® RAID Controller RS2MB044
- 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 RS2MB044 Resource CD
- Operating system installation media: Microsoft Windows Server 2003*, Microsoft Windows Server 2008*, Microsoft Windows Vista*, Red Hat* Enterprise Linux, or SUSE* Linux Enterprise Server

Check the Bracket Height

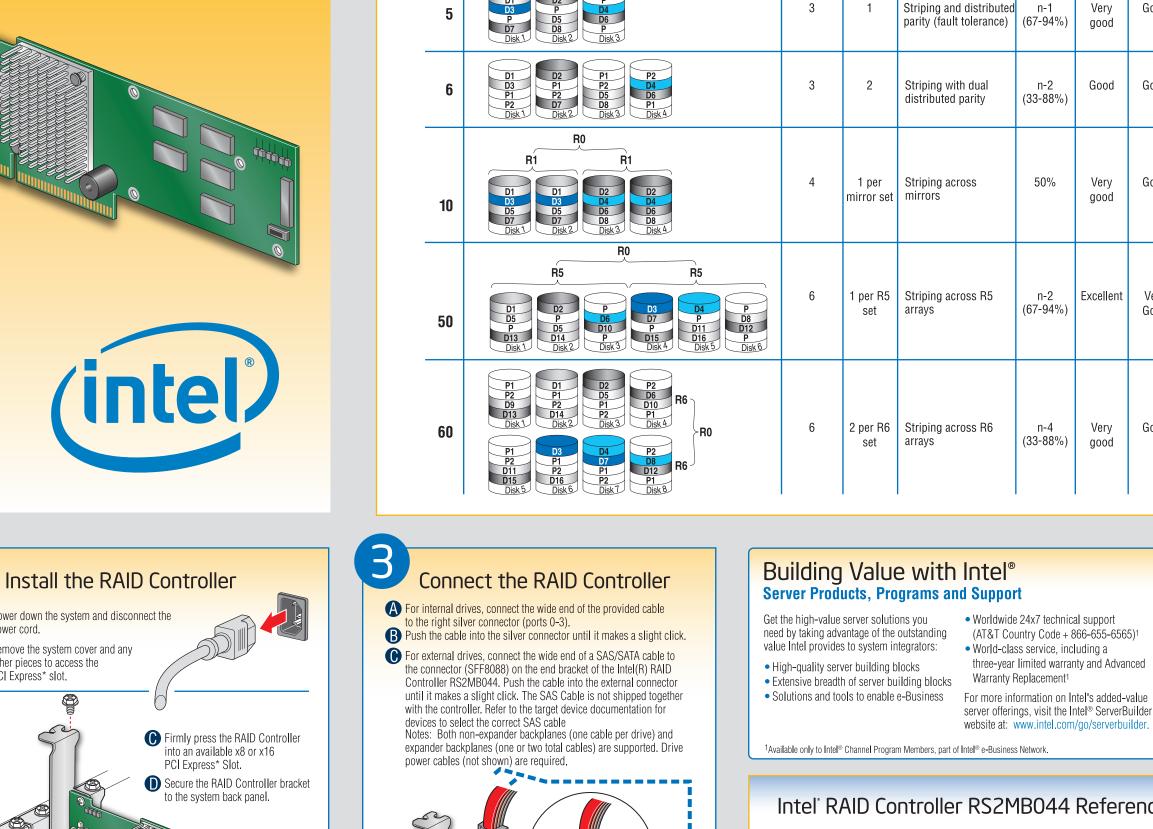




A Power down the system and disconnect the Remove the system cover and any other pieces to access the PCI Express* slot. Firmly press the RAID Controller into an available x8 or x16 PCI Express* Slot. Secure the RAID Controller bracket to the system back panel.

Audible Alarm Information

For information about the audible alarm and how to silence or disable it, see the reverse side of this document.



Choosing the Right RAID Level

Minimum **Physical**

Drives

2

2

Fail PDs

Allowed

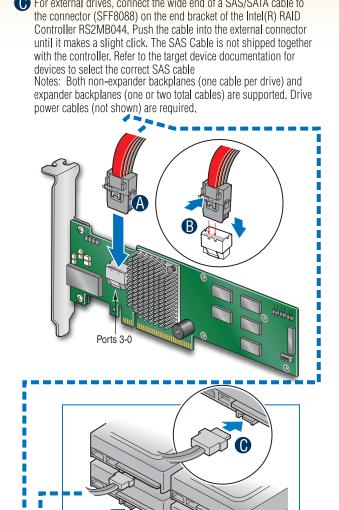
NONE

Method

Striping (speed)

Mirroring

(redundancy)



Rear view of four SATA drives connected to ports 0-3 on the Intel® RAID Controller RS2MB044.

Go to Step 4 on Side 2

- Training information, such as the server offerings, visit the Intel® ServerBuilder
 - Intel® Online Learning Center

specifications

presentations

Sales tools, such as videos and

Intel® ServerBuilder is your one-stop

Server Building Blocks such as:

Product information, including

shop for information about all of Intel's

product briefs and technical product

Support Information and much more

Speed

Very

good

Speed

Good

Good

Good

Good

Very

Good

Good

Excellent Excellent

Good Usage

High throughput

workstation

OS, apps entry level

Data, web/media

server

High fault

tolerance

Database, file,

mail servers

Database, file,

mail servers

Critical data

Capacity

100%

50%

Intel® RAID Controller RS2MB044 Reference Diagram Back View Front View Bracket Screw (2) Port J2B2 Ports 3-0 Express* Interface Speaker **Battery Mounting** Holes (3) JT3 Battery Connector

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