Intel® RAID Controller RS2BL080 Quick Start User's Guide

This guide contains step-by-step instructions for installing the Intel® RAID Controller RS2BL080 and information on using the BIOS setup utility to configure a single logical drive array and install the driver into the operating system.

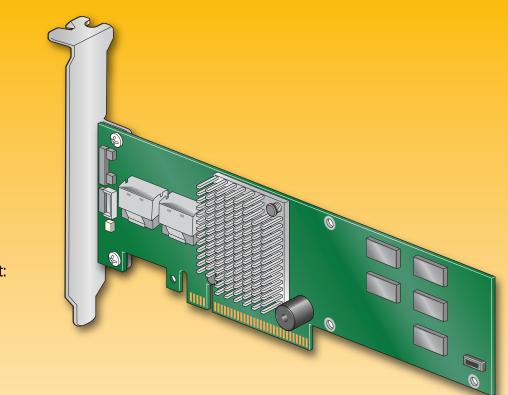
For more advanced RAID configurations, or to install with other operating systems, please refer to the Hardware User's Guide.

These guides and other supporting documents

(including a list of supported server boards) are also located on the web at: http://support.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.





Install the RAID Controller

A Power down the system and disconnect the

Remove the system cover and any

other pieces to access the

Warning

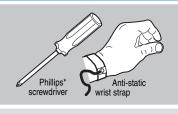
Read all caution and safety statements in this document before performing any of the instructions. Also see the *Intel*® Server Board and Server Chassis Safety Information document at: http://support.intel.com/support, motherboards/server/sb/cs-01077 .htm for complete safety information.

Warning

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] integration to avoid possible damage to server board and/or other components.

Tools Required



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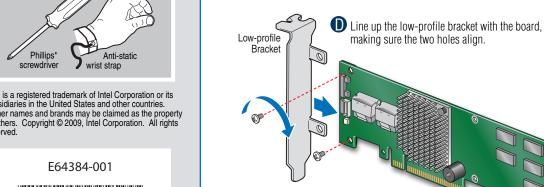
- SAS 1.0 hard disk drives)
- Operating system installation media: Microsoft Windows Server 2003*,

Remove the bracket.

Replace and tighten the two screws.

Installation and service of performed by qualified service

procedures during system

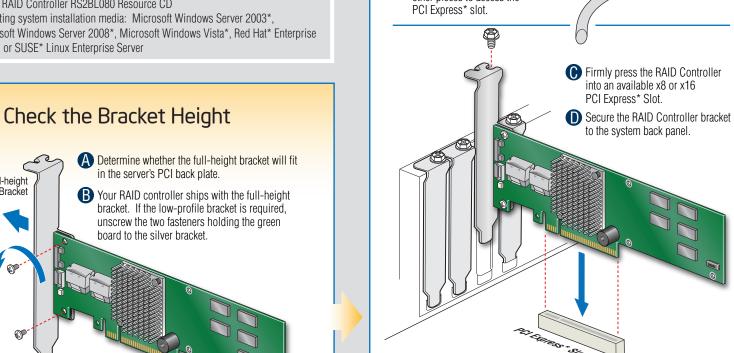


What you will need to begin

- SAS 2.0 or SATA II hard disk drives (backward compatible to support
- Intel® RAID Controller RS2BL080
- 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 RS2BL080 Resource CD

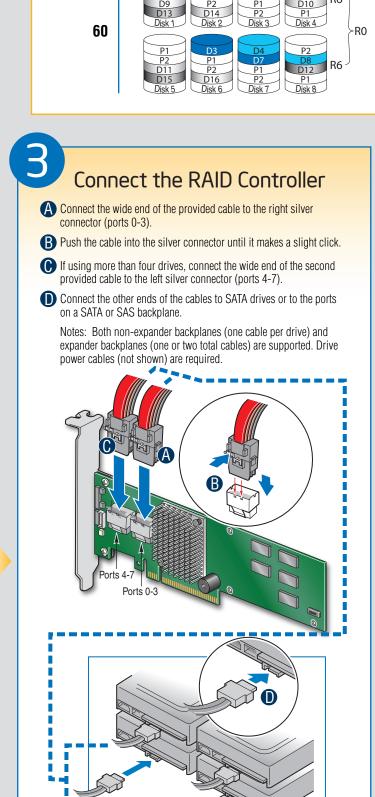
Full-height Bracket

Microsoft Windows Server 2008*, Microsoft Windows Vista*, Red Hat* Enterprise Linux, or SUSE* Linux Enterprise Server



Audible Alarm Information

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



Rear view of four SATA drives connected to ports 0-3 on the Intel® RAID Controller RS2BL080.

Go to Step 4 on Side 2

Choosing the Right RAID Level

Building Value with Intel® Server Products, Programs and Support

Get the high-value server solutions you need by taking advantage of the outstanding

- value Intel provides to system integrators:
- High-quality server building blocks
- Extensive breadth of server building blocks
 - Solutions and tools to enable e-Business
- (AT&T Country Code + 866-655-6565)1 World-class service, including a

Worldwide 24x7 technical support

three-year limited warranty and Advanced Warranty Replacement¹

Speed

Speed

Good

Good Usage

High throughput workstation

OS, apps

entry level

Capacity

- For more information on Intel's added-value server offerings, visit the Intel® ServerBuilder website at: www.intel.com/go/serverbuilder.
- Sales tools, such as videos and presentations • Training information, such as the

specifications

Intel® ServerBuilder is your one-stop

shop for information about all of Intel's

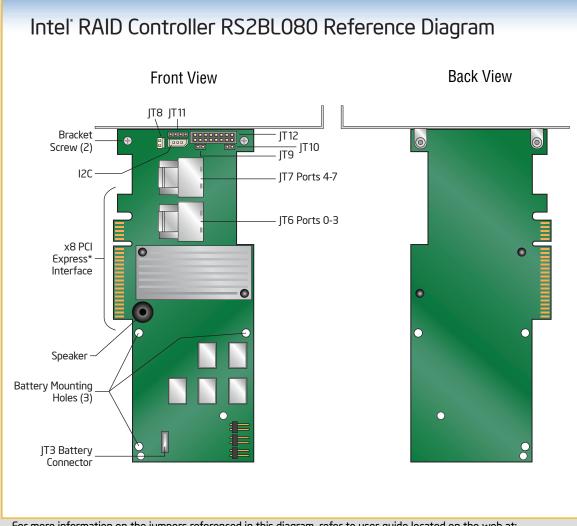
product briefs and technical product

Server Building Blocks such as:

Product information, including

Intel® Online Learning Center Support Information and much more

¹Available only to Intel[®] Channel Program Members, part of Intel[®] e-Business Network



For more information on the jumpers referenced in this diagram, refer to user guide located on the web at:

http://support.intel.com/support/motherboards/server.

NONE Striping (speed) 100% 2 Excellent Excellent 2 50% Mirroring Very (redundancy) good

Minimum Physical

Drives

3 Striping and distributed Very Good Data, web/media parity (fault tolerance) (67-94%) server good

Fail PDs

Allowed

Method

4 Striping with dual Good Good High fault (50-88%)distributed parity tolerance

Database, file, Striping across 50% Very Good 1 per mail servers mirror set good

1 per R5 | Striping across R5 n-2 Excellent Very Database, file, (67-94%)arrays mail servers Good

2 per R6 Striping across R6 Very Critical data Good (50-88%)good