Intel[®] RAID Controller RS25FB044 Quick Start User's Guide

This guide contains step-by-step instructions for installing the Intel® RAID Controller RS25FB044 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.

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.

Caution



Tools Required



Intel is a registered trademark of Intel Corporation or its subsidiaries in the United States and other countries. *Other names and brands may be claimed as the property of others. Copyright © 2012, Intel Corporation. All rights

G59534-001

Intel® RAID Controller RS25FB044 **Reference** Diagram Front View **Mini-SAS** Connectors Port 4-7 Bracket Screw (2) Back View x8 PCI Express* Interface ----— J2 J7 Port 0-3

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/.

3 Connect the RAID Module

A For internal drives, connect the SFF8087 miniSAS end of a cable to the onboard internal SFF8087 miniSAS connector. **B** Push the cable into the silver connector until it makes a slight click.

- **(**) For external drives, connect the SFF8088 miniSAS end of an external cable to the onboard SFF8088 miniSAS connector on the bracket of the Intel(R) RAID Controller RS25FB044. Push the cable into the external connector until it makes a slight click. The SAS cable is not shipped together with the controller. Refer to the target device documentation for devices to select the correct SAS cable.
- Connect the other ends of the cables to SATA drives or to the ports on a SATA or SAS backplane.

Note: Both non-expander backplanes (one cable per drive) and expander backplanes (one or two total cables) are supported. Drive power cables (not shown) are required.



on the Intel® RAID Controller RS25FB044.

disk drives)



Use the LSI MPT SAS BIOS Configuration Utility* to Create a RAID Virtual Drive

Power on the system and below is displayed.	d press < Ctrl > + < C > when the screen	3 Higi	nlight RAID Properties and press	<enter>.</enter>
LSI Corporation MPT SAS B10 MPTB105-6.24.00.00 (2008.07	IS .		Corp Config Utility v6.24.00 ter Properties CHIPNAME).00 (2008.07.01)
Copyright 2000-2008 LSI Cor			Adapter PCI Slot PCI Address(Bus/Dev) MPT Firmware Revision SAS Address NUDATA Version Status Boot Order Boot Support Ad1B Properties SAS Topology Advanced Adapter Properties	
	al Properties window select RS25FB044 in	4 On th	er = Select Item -/+/Enter = Cha ne Select New Array Type screen,	select the appropriate configuratic
In the Adapter List Globa the Adapter column and LSI Corp Config Utility Select New Array Type	press < Enter >.	4 On the for example.	er = Select Item -/*/Enter = Che ne Select New Array Type screen, kample Create IM Volume, and pu corp Config Utility v6.24.0 ster List Global Properties	select the appropriate configuration ress < Enter >.
the Adapter column and	press < Enter >.	4 On the for example.	er = Select Item -/*/Enter = Che ne Select New Array Type screen, kample Create IM Volume, and pu corp Config Utility v6.24.0 ster List Global Properties	select the appropriate configuration ress < Enter >. 9.00 (2000.07.01) C1 FW Revision Status Bood Ords
the Adapter column and	press < Enter >. v6.24.00.00 (2008.07.01) SAS1064E Create Integrated Mirror Array of 2 disks plus up to 2 optional hot spares.	4 On the for example.	er = Select Item -/+/Enter = Cha he Select New Array Type screen, kample Create IM Volume, and pi corp Config Utility v6.24.00 ther List Global Properties ther PCI PCI PCI P Bus Dev Fac S	select the appropriate configuration ress < Enter >. 9.00 (2000.07.01) C1 FW Revision Status Bood Ords
the Adapter column and	press < Enter >. v6.24.00.00 (2008.07.01) SAS1064E Create Integrated Mirror Array of 2 disks plus up to 2 optional hot spares. Data on the primary disk may be migrated. Create Integrated Mirrored Enhanced Array of 3 to 10 disks including up to 2 optional hot spares.	4 On the for example.	er = Select Item -/+/Enter = Cha he Select New Array Type screen, kample Create IM Volume, and pi corp Config Utility v6.24.00 ther List Global Properties ther PCI PCI PCI P Bus Dev Fac S	select the appropriate configuration ress < Enter >. 9.00 (2000.07.01) C1 FW Revision Status Bood Ords