Intel[®] SAS Controller RS25GB008 Quick Start User's Guide

This guide contains step-by-step instructions for installing the Intel® SAS Controller RS25GB008.

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® SAS controllers, see: www.intel.com/go/serverbuilder.

Read all cautions and warnings first before starting your SAS 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://support.intel.com/support/ motherboards/server/sb/cs-010770 .htm for complete safety information.

Warning



Caution



Tools Required



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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[®] SAS Controller RS25GB008
- Server board with an x8 PCI Express* Generation 2 slot (backward compatible to support an x8 or x16 PCI Express* Generation 1 slot)
- Intel[®] SAS Controller RS25GB008 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



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Install the Operating System Drivers

Note: Below section lists the general driver loading process for frequently used operating systems. For more details, and for other supported operating systems, refer to the corresponding driver release notes to get latest information.

Microsoft Vindows 2003*	OR	<i>Microsoft</i> <i>Windows 2008*</i>	OR	Red Hat* Enterprise Linux	OR	SuSE* Linux Enterprise Server	
nstallation media (floppy disk required for Microsoft Windows 2003*; removable such as a floppy disk, USB device, or CD/DVD-ROM, required for Microsoft /s 2008*). See the instructions below.				Create installation media (removable media, such as a floppy disk, USB device, or CD/DVD-ROM, required). See the instructions below.			
e server and start the OS installation.				2 Boot the system with Red Hat* Enterprise Linux CD-ROM. Enterprise Server		ot the system with SuSE* Linux terprise Server (SLES) CD-ROM.	
e < F6 > key as soon as the first screen appears.						······································	
rompted to specify a mass controller:	Whe insta	When you see: "Where do you want to install windows?", select Load Driver , and then click Next. When prompted by the Load Driver dialog:		At the boot prompt, insert the Linux installation disk that you created	W Lii	hen the first screen displays, insert the nux installation disk that you created	
<pre>S <s> to specify additional storag </s></pre>	je and f			III Slep T.	Ste	Step 1. Press the <f5> kev for SLES 10 or the</f5>	
	wne			Type Linux dd. and press the	Pr		
reated in step 1 above.	a. In: th	sert the removable installation media at you created in step 1 above.		< Enter> key.	<f an</f 	<f6> key for SLES 9 to load the driver, and then select an installation menu</f6>	
s the <enter> key to select the allation Driver" and continue with Windows installation.</enter>	key to select theb. Press the <enter> key to select the</enter>"and continue with allation.b. Press the <enter> key to select the</enter>"Installation Driver" and continue with the Windows installation.		6	option. Follow the on-screen instructions to complete the installation. The SAS controller			
he on-screen instructions to complete the Windows installation.				driver is automatically detected and installed.			

Create Installation Media

1 Obtain the drivers either from the enclosed resource CD or the Intel web site.

2 If using the enclosed Resource CD, insert the resource CD. Browse to \Drivers and then the matching OS folder.

Go to http://downloadcenter.intel.com and locate your product under Server Products in the left menu.

Microsoft Windows*

Extract the files from the zip file to your hard drive. Copy the appropriate files to a floppy disk (for Microsoft Windows 2003*) or removable media (for Microsoft Windows 2008*).

Copy the matching .sys, .cat, .oem, and .inf driver files to a floppy disk or removable media

Create install disk (for most drivers)

Extract the driver update disk (DUD) image (file extension .img) from the zip file to your hard drive. If you have a system with Microsoft Windows^{*}, you will need a third-party utility such as 'rawrite' to extract the DUD image to a floppy disk. For a system under Linux or Sun Solaris^{*}, use the 'dd' command as follows: dd if=<image_file_name> of=<path-to-media>

Linux*

'path-to-media' is usually /dev/fd0, but may differ if you are using a USB floppy drive. **Create install CD** (for some drivers)

Extract the image (file extension .iso) from the zip file to your hard drive. You will need a third-party cd burner application to create a install CD.



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.





Connect the SAS Controller

A Configure and install the external SAS Devices, SATA II Devices, or both Refer to the target device documentation for any preinstallation configuration requirements.

B Connect the SAS Controller to the external SAS Devices,

Refer to the target device documentation for devices to select the correct SAS cable for the SAS Devices, SATA II Devices, or both.

• Push the cable into the external connector until it makes a slight click. The SAS Cable is not shipped together

