

Intel® RAID Controller RS2WC080

Compact Eight-Port 6G SAS PCIe 2.0 RAID Adapter for Entry-Level Applications

Product Overview

The Intel® RAID Controller RS2WC080, one of Intel's new entry-level 6Gb/s SAS adapters, incorporates LSI's MegaRAID* Entry technology to offer exceptional data protection and design flexibility. Features including LSI's SAS2008 6Gb/s I/O Controller (IOC) and a native PCI Express* 2.0 architecture help to deliver essential performance for 3Gb/s and 6Gb/s drive-based solutions.

The Intel RS2WC080 allows businesses using workstations and entry-level servers to employ robust RAID functionality at lower prices than enterprise-class RAID adapters.

All Intel RAID solutions are validated across multiple platforms with Intel® boards, chassis, and systems. Customized training, as well as Intel® service and support, make

Intel the one source for customers seeking data protection, increased productivity, and simplified IT.



Key Advantages

▪ Exceptional data protection.

Supports data redundancy using SAS or SATA hard disk drives through mirroring and parity (RAID levels 1, 5) plus striping capability for spans (RAID levels 10, 50).

▪ Essential performance without relying on system resources.

Includes an LSI* SAS2008 I/O Controller with hardware RAID capability and a x8 PCI Express* Generation 2 host interface to enhance the performance of server and workstation applications.

▪ Inside-the-box design flexibility

With a true MD2 form factor, this adapter is ideal for low-profile height and half-length adapter slots. Eight internal 6Gb/s SAS ports allow connection to 6Gb/s or 3Gb/s high-performance SAS drives, high-capacity SATA drives or a combination of both.

▪ Enhanced entry-level availability.

The Intel RS2WC080 design is based on LSI MegaRAID* Entry technology which offers the same robustness and many of the same features as trusted LSI MegaRAID technology. Configuration options are simplified for entry-level usage models.

▪ Seamless migration to more fully featured RAID.

The Intel RS2WC080 shares common drivers with Intel's enterprise-class RAID products which allows for simple migration to more full-featured RAID On Chip-based products should system requirements change.

Why Consider More?

Installing a mainstream RAID controller such as Intel® RAID Controller RS2BL080 offers multiple advantages including:

- LSI2108 RAID On Chip Processor for superior performance
- Additional RAID level 6 and span 60
- 512MB embedded cache with an option for battery backup
- Larger stripe sizes and more physical devices

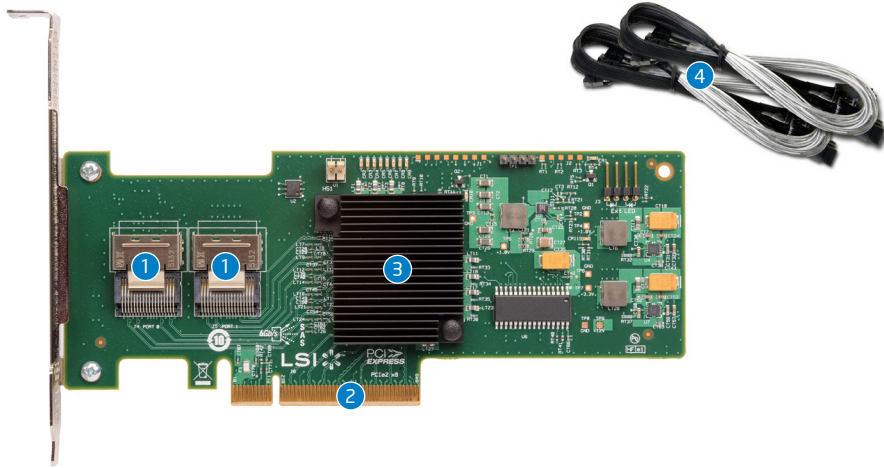
Intel® RAID Controller RS2WC080

Powered by LSI MegaRAID* Technology

For more information on
Intel® RAID Controllers,
visit www.intel.com/go/RAID

Features

- 1 Two SFF8087 SAS/SATA connectors for up to eight internal ports
- 2 x8 PCI Express* Generation 2 interface for fast communication with the server board
- 3 LSI SAS2008 IOC controller providing SAS 2.0 compliance including 6Gb/s data transfer and compatibility with SAS or SATA drives
- 4 Two internal cables with SFF8087 connectors that expand to four individual connectors



For more information on the Intel® RAID Controller RS2WC080, visit: www.intel.com/go/RAID

For more information on how to make the Intel® RAID Controller RS2WC080 part of your server environment, please contact an Intel® Channel Partner Program participant.

INFORMATION IN THIS DOCUMENT IS PROVIDED IN CONNECTION WITH INTEL PRODUCTS. NO LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE, TO ANY INTELLECTUAL PROPERTY RIGHTS IS GRANTED BY THIS DOCUMENT. EXCEPT AS PROVIDED IN INTEL'S TERMS AND CONDITIONS OF SALE FOR SUCH PRODUCTS, INTEL ASSUMES NO LIABILITY WHATSOEVER AND INTEL DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY, RELATING TO SALE AND/OR USE OF INTEL PRODUCTS INCLUDING LIABILITY OR WARRANTIES RELATING TO FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT.

UNLESS OTHERWISE AGREED IN WRITING BY INTEL, THE INTEL PRODUCTS ARE NOT DESIGNED NOR INTENDED FOR ANY APPLICATION IN WHICH THE FAILURE OF THE INTEL PRODUCT COULD CREATE A SITUATION WHERE PERSONAL INJURY OR DEATH MAY OCCUR.

Intel may make changes to specifications and product descriptions at any time, without notice. Designers must not rely on the absence or characteristics of any features or instructions marked "reserved" or "undefined." Intel reserves these for future definition and shall have no responsibility whatsoever for conflicts or incompatibilities arising from future changes to them. All products, dates, and figures specified are preliminary based on current expectations, and are subject to change without notice. Availability in different channels may vary.

Intel and the Intel logo are trademarks of Intel Corporation in the U.S. and other countries .

*Other names and brands may be claimed as the property of others.

© 2010 Intel Corporation. All rights reserved.

0110/SJ/MESH/PDF

Please Recycle

323249-001US

Technical Specifications

RAID Levels and Spans	RAID Levels 0, 1 and 5 RAID Spans 10, 50 Pass-through/JBOD mode
Data Protection Feature Highlights	Online Capacity Expansion Hot-Spare Support – Global & Dedicated Single Controller Multipathing (Failover) Enclosure Management Background Consistency Checking Patrol Read for Media Functionality S.M.A.R.T. Support
Intel® RAID Software	Intel® RAID Web Console 2 Intel® RAID Command Line Tool Intel® RAID Flash Utilities
I/O Processor	LSI SAS2008 SAS Controller
Drive Types	SAS 6Gb/s, SAS 3Gb/s or SATA 3Gb/s
Maximum Devices/Drives	Non-RAID: 64 RAID 0: 16 per volume RAID 1: 2 per volume plus hotspare RAID 5: 16 per volume RAID 10: 16 per volume RAID 50: 16 per volume
Connectors	Two SAS SFF8087 x4 SAS internal connectors
PCI Interface	x8 PCI Express* 2.0
Form Factor	Low profile, MD2 (6.6" X 2.536")
Data Transfer Rates	Up to 6Gb/s per port
Operating Temperature	Maximum ambient: 60°C
Operating Voltage	+12V ±10%
Standard Order Code	RS2WC080
Standard Warranty	3 years, AWR option

