

Intel® RAID Controller RS2WC080

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

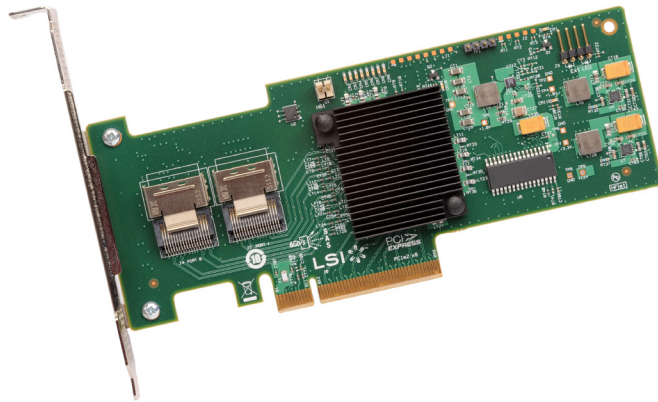
Product Overview

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

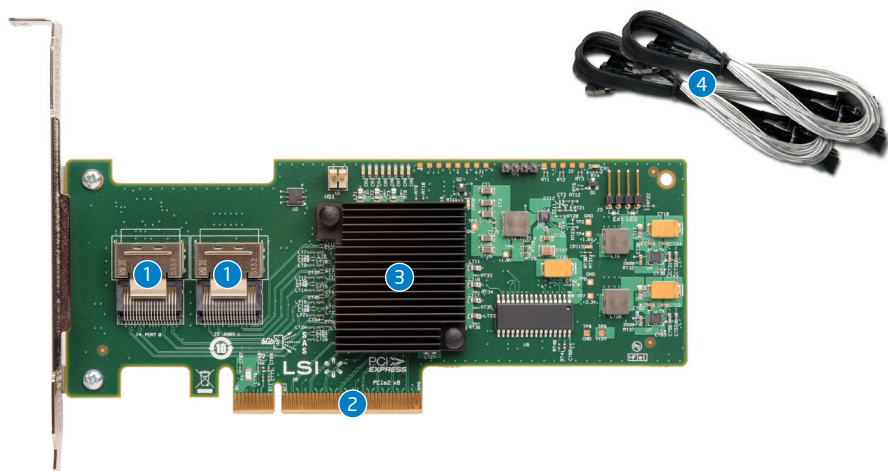
Intel® RAID Controller RS2WC080

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.

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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

