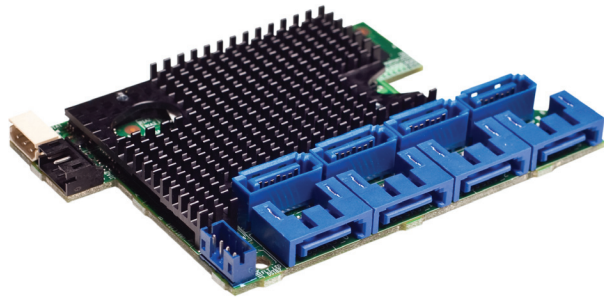


Intel® Integrated RAID Module RMS2AF080

Seamless Entry-Level SAS-2 RAID for Intel® Server Boards and Systems



Product Overview:

The Intel® RMS2AF080, one of Intel's new entry-level 6Gb/s SAS I/O modules, incorporates LSI's MegaRAID* Entry technology to offer exceptional data protection and configuration flexibility. Designed for a wide selection of Intel server boards, this

SAS/SATA RAID module offers features including LSI's 2008 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 RMS2AF080 allows businesses using entry-level servers and workstations to employ robust RAID functionality at lower prices than enterprise-class RAID adapters.

The Intel® RMS2AF080 communicates with the host system through a custom board-to-board PCIe 2.0 interface to allow for minimizing the RAID hardware footprint. With the popularity of rack-dense 1U and 2U servers increasing, this design allows system builders to easily implement a robust RAID solution without sacrificing a valuable riser-card slot or using a chassis with low-profile add-in card cut-outs.

All Intel RAID solutions are validated across multiple platforms with Intel® boards, chassis, and systems. Custom 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:

- **System design flexibility.** 1U capable system board connects to the I/O expansion slot on Intel's rack optimized server boards. This module can be used in Intel and 3rd party chassis without the need for a riser card or low profile chassis cutout.
- **Exceptional data protection.** Supports data redundancy using SAS or SATA hard disk drives through mirroring, parity, and double parity (RAID levels 1 and 5) plus striping capability for spans (RAID levels 10 and 50).
- **Excellent performance without hindering system resources.** LSI SAS2008 I/O controller, host allows for built-in hardware RAID 0, 1 and 10 ; plus, firmware-based RAID 5 and 50 (RAID 5 and 50 utilize system resources to a limited extent).
- **Enhanced entry-level availability.** The Intel RMS2AF080 design utilizes LSI MegaRAID* Entry technology which offers simplified configuration options, the same robustness, and many of the same features as trusted LSI MegaRAID technology.
- **Seamless migration to more fully featured RAID.** The Intel RMS2MH080 shares common drivers with Intel's enterprise-class RAID products.

Why Consider More?

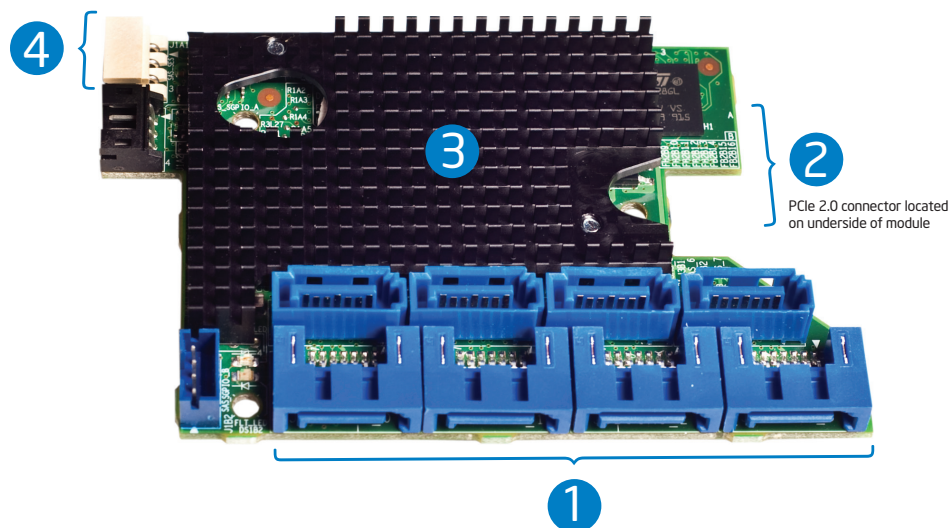
Install a mainstream RAID controller* for:

- Superior performance with LSI2108 RAID On Chip Processor
- 512MB embedded cache with optional battery backup
- Additional RAID level 6 and span 60
- Compatibility with Intel RAID Premium Features

*For example, Intel® RAID Controller RS2BL080

Features:

- 1 Eight 7-Pin SAS/SATA connectors for up to eight internal ports
- 2 x4 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 I2C Connector 3-pin keyed connector for out-of-band enclosure management (SES2)
- 5 Eight cables with 7-pin SAS/SATA connectors on each end (not shown)



Technical Specifications:

Intel Order Code	AXXRMS2AF080
Compatible Intel® Server Boards and Systems (as of July '10)	Intel® Server Board S5520UR Intel® Server Board S5500WB Intel® Server Board S5520HC Intel® Server Board S5520SC Intel® Server Board S3420GP Intel® Server System's and 3 rd party systems based on the above server boards
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	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	Eight 7-pin SAS/SATA connectors
PCI Interface	x4 PCI Express* 2.0
Form Factor	1U Capable System Board
Data Transfer Rates	Up to 6Gb/s per port
Operating Temperature	Maximum ambient: 50°C
Operating Voltage	+12V ±10%
Standard Warranty	3 years, AWR option

For more information on how to make Intel® Integrated RAID Module RMS2AF080 part of a successful storage solution, visit: www.intel.com/go/RAID



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. The information here is subject to change without notice. Do not finalize a design with this information.

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.

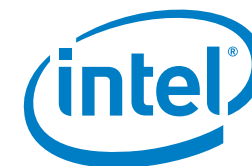
Copyright © 2010 Intel Corporation. All rights reserved.

Printed in USA

0710/SJ/ExactMarket/PDF

♻️ Please Recycle

324035-001US



Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>