

## Product Brief

Intel® Integrated RAID  
Module AXX4SASMOD

# Intel® Integrated RAID Module AXX4SASMOD

## Flexible SAS/SATA Controller Delivers Multiple Entry-Level RAID Options

### Product Overview

The economical Intel® RAID Controller AXX4SASMOD delivers choice to end customers for SAS/SATA-based server systems and workstations, supporting any of the following operating modes with a single device:

- Entry-level hardware RAID 0/1/1E
- Low cost software RAID 0/1/5/10
- Non-RAID data off-load

Designed specifically for select Intel® Server Boards, this SAS/SATA RAID is cost optimized for a very compelling price point in any form factor system. For 1U and 2U servers, the unique module shape and specialized PCI Express\* connector provide the ability to easily implement a robust RAID solution in popular 1U and 2U form factor systems, 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 Server 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.

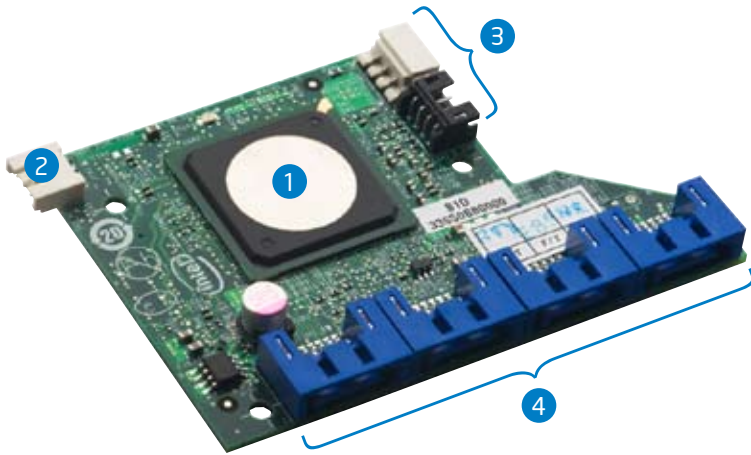


### Key Advantages

- **High flexibility** with four operating mode options. Choose from:
  - Entry hardware RAID 0, 1, and 1E
  - Software RAID 0, 1, and 10
  - Software RAID 5 with the addition of optional upgrade key AXXRAKSW5
  - Pass-through SAS mode
- **SAS or SATA storage.** Connect SAS or SATA devices within the array. Use SAS drives for speed, reliability, and scalability or high-capacity SATA drives for budget-friendly storage.
- **Scalability.** Support up to 122 physical devices in SAS mode, which is ideal for employing JBODs (Just a Bunch Of Disks) or up to 14 devices in RAID 0, 1, 1E/10E mode through direct-connect device attachment or expander backplane support.
- **Ultra-thin driver.** Decrease overhead on system resources with pass-through SAS and entry-level RAID performed on the card within firmware.
- **Increased IT productivity.** Simplify installation and improve manageability using the included suite of tools, which are common across all Intel SAS/SATA RAID solutions.

## Features

- 1 LSI SAS1064E controller
- 2 RAID 5 activation key connector for optional AXXRAKSW5
- 3 Drive fault and individual activity LED connector interfaces
- 4 SATA x1 connectors for up to four internal ports
- 5 Four cables banded together for cleaner routing (not shown)



For more information on how to make Intel® Integrated RAID Module AXX4SASMOD part of a successful storage solution, visit: [www.intel.com/go/RAID](http://www.intel.com/go/RAID)

## Technical Specifications

<b>RAID Levels</b>	<b>Option 1:</b> Entry Hardware RAID 0, 1, and 1E <b>Option 2:</b> Software RAID 0, 1, 10 <b>Option 3:</b> Software RAID 5 (requires optional AXXRAKSW5) <b>Option 4:</b> Pass-through SAS
<b>Fault Tolerance Features</b>	Distributed Sparing Hot Spare Support Expander Support Enclosure Management S.M.A.R.T. Support RAID support before operating system loaded
<b>Intel® RAID Software</b>	Intel® Embedded RAID II Configuration Utility Intel® RAID Web Console 2 Intel® SAS Flash
<b>I/O Processor</b>	LSISAS1064E
<b>Drive Types</b>	SAS or SATA 3Gb/s
<b>Maximum Drives</b>	Up to 122 physical devices supported with SAS mode and up to 14 devices with RAID 0/1/1E/10E  Tape drives supported as a pass-through devices in RAID modes
<b>Connectors</b>	Four SATA x1 SAS internal connectors
<b>PCI Interface</b>	PCI Express* x4
<b>Form Factor</b>	Custom 1U capable for server boards with the appropriate module connector
<b>Data Transfer Rates</b>	Up to 3 GB/s per port
<b>Operating Temperature</b>	Maximum ambient: 60°C
<b>Operating Voltage</b>	+3.3V




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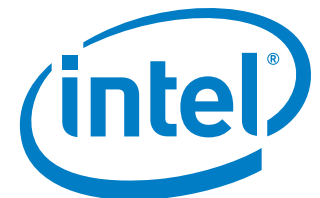
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