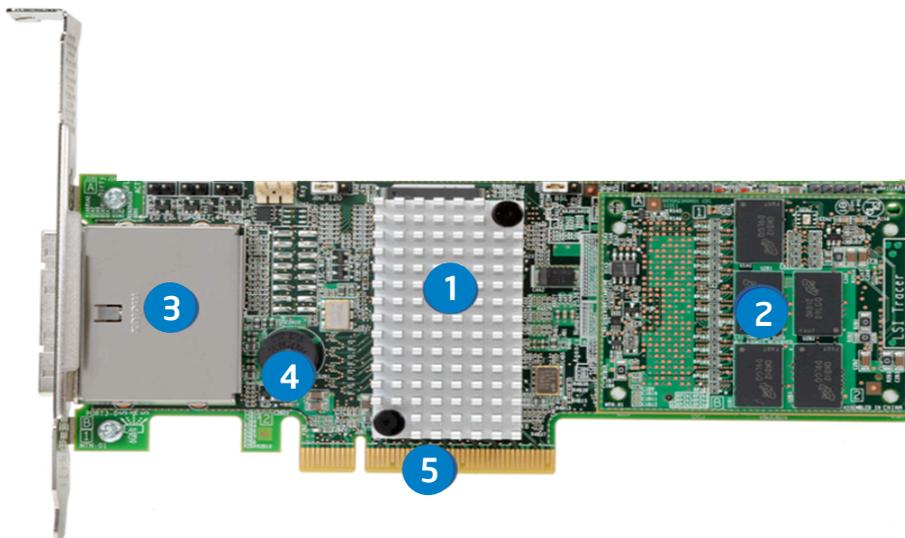


# Intel® RAID Controller RS25NB008

2nd Generation SAS-2 6G SAS Host Bus Adapter for Mainstream Applications

## Powered by LSI MegaRAID\* Technology



- 1 LSI SAS2208 Dual Core ROC controller providing SAS 2.0 compliance including 6Gb/s data transfer
- 2 Embedded 1GB 1333MHz cache (ECC DDR3 memory) to efficiently store data in transition
- 3 Two SFF8088 SAS/SATA connectors for up to eight external ports
- 4 Speaker to deliver audible alerts
- 5 x8 PCI Express Generation 2 interface for fast communication with the server board
- 6 Optional Intel® Smart Battery AXXRSBBU9 offering cache protection with up to 5 years service life (not shown)

## Product Overview

The Intel® RAID Controller RS25NB008, with eight external ports, delivers two 1333MHz processor cores and a 72-bit DDR3 interface that drives 1GB cache memory. For users implementing hybrid server platforms based on solid-state storage, the Intel RS25NB008 unleashes the IOPs and throughput potential of SSDs to provide exceptional storage performance. Even users deploying this new RAID controller in existing HDD-based server environments are likely

to experience significant performance gains compared to previous generation controllers.

The Intel RS25NB008 is supported by a new version of the Intel® RAID Web Console 2 which enhances RAID volume creation by empowering administrators to further optimize their storage for application performance and data protection. Through the use of an intuitive graphical user interface, Intel RAID Web Console 2 deploys all the critical system storage functions without a time-consuming learning curve.

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.

Order Codes	RAID Card: RS25NB008 BBU: AXXRSBBU9
RAID Levels and Spans	RAID Levels 0, 1, 5, and 6 RAID Spans 10, 50, and 60
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 SAS2208 ROC running at 1333MHz
Drive Types	SAS 6Gb/s or SATA 6Gb/s, SAS 3Gb/s or SATA 3Gb/s
Maximum Drives	Up to 128 physical devices supported
Connectors	Two SAS SFF8088 x4 SAS external connectors
Cache Memory	Embedded 1GB at 1333MHz
PCI Interface	x8 PCI Express* 2.0
BBU Support	Optional Intel® Smart Battery AXXRSBBU9
Form Factor	Low profile, MD2 (6.6" X 2.536")
Data Transfer Rates	Up to 6Gb/s per port
Operating Temperature	Maximum ambient: 65°C (55°C with optional BBU)
Operating Voltage	+3.3 V

## Key Advantages

- Exceptional data protection. Supports data redundancy using SAS or SATA hard disk drives through mirroring, parity, and double parity (RAID levels 1, 5, and 6) plus striping capability for spans (RAID levels 10, 50, and 60).
- Excellent performance. A dual core LSI\* SAS2208 ROC, x8 PCI Express\* Generation 2 host interface, and 1GB of 1333MHz cache enhances the performance of mainstream 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 external 6 Gb/s SAS ports allow connection to JBODS supporting 6Gb/s or 3Gb/s high-performance SAS drives, high-capacity SATA drives or a combination of both.
- Outstanding availability. Delivers proactive drive monitoring and automatic error correction. A new battery (optional accessory) offers multiple operating modes including high heat tolerance and 5 year service life options.
- Support for premium feature upgrades. Includes a connector for optional hardware-based keys that easily plugs in to unlock advanced software algorithms designed to improve performance and enhanced data protection. For instance, the SSD Cache with FastPath\* I/O upgrade allows for using one or more SSD as enhanced cache for the RAID controller which can significantly improve performance of read-intensive applications such as file, Web, and online transaction processing servers.

For more information on the Intel® SAS Controller RS25NB008, visit: [www.intel.com/go/RAID](http://www.intel.com/go/RAID)

For more information on how to make the Intel® SAS Controller RS25NB008 part of your server environment, please contact an Intel® Channel Partner Program participant.

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