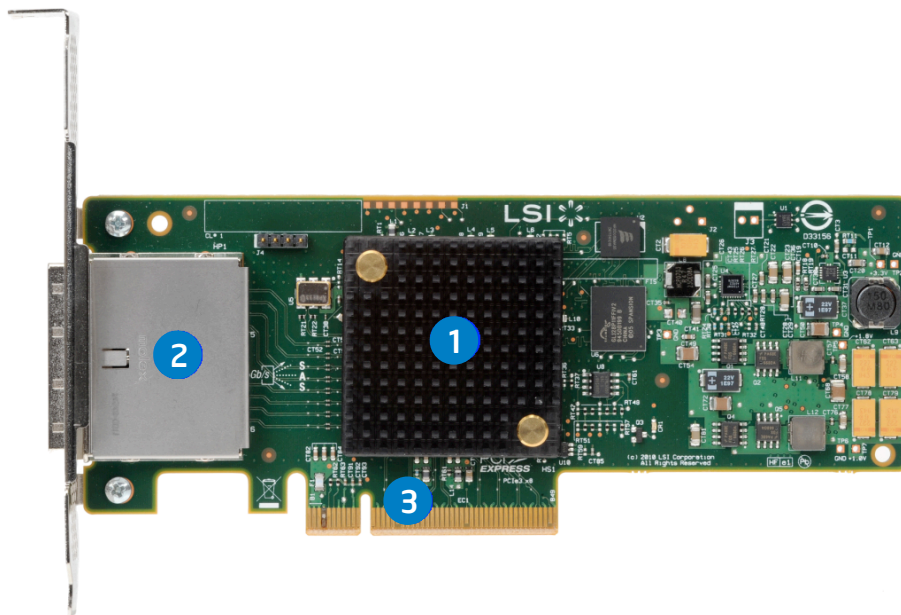


# Intel® RAID Controller RS25GB008

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



## Powered by LSI MegaRAID\* Technology

- 1 LSI SAS2308 Dual Core IO controller providing SAS 2.0 compliance including 6Gb/s data transfer
- 2 Two SFF8088 SAS/SATA connectors for up to eight external ports
- 3 x8 PCI Express Generation 2 interface for fast communication with the server board

## Product Overview

The Intel® SAS Controller RS25GB008 host bus adapter provides high performance connectivity for 1U/2U mid to high-end servers that connect to large scale storage enclosures. The Intel® SAS Controller RS25GB008 is based on the LSI SAS2308 IO controller that highly integrates the latest enhancements in PCI Express and SAS technology and supports up to 1024 SAS or SATA devices.

The Intel® SAS Controller RS25GB008 has two (x4) external mini SAS connectors (SFF8088) which provide SAS and SATA data transfer rates of 1.5, 3 and 6Gb/s per port through automatic speed negotiation and can achieve over 550,000 I/O's per second (IOPs). Enhanced features include T-10 Protection Information Model for early detection of and recovery from data corruption, and Spread Spectrum Clocking (SSC) for minimal EMI.

## Key Advantages

- Maximum connectivity and performance in a low profile form factor.
- 8 ports of PCI Express 2.0 provides fast signaling for high-bandwidth applications and broad compatibility with latest motherboards
- High performance with 6Gb/s data transfer rates.

Order Codes	SAS Card: RS25GB008
IO Controller	LSISAS2308, Fusion MPT 2.0
Storage Connectivity Data Transfer Rates	8 ports, 6Gb/s SAS 2.1 Compliant
SAS Bandwidth	Half Duplex 600 MB/s per lane
Port Configurations	8 ea, x1 ports (individual drives) 2 ea, x4 wide ports
Host Bus	x8 lane, PCI Express 2.0
PCI Data Burst Transfer Rates	Half Duplex x8, PCIe, 4000 MB/s
Physical Dimensions	Low Profile (2.7" x 6.6")
Connectors	Two mini-SAS external connectors (SFF8088)
Brackets	Full height and low profile
Cable Support	Passive Copper
PCI Card Type	3.3 V Add-in Card
Operating Voltage	+12V +/-8%; 3.3V +/-8%
PCI Power (Nominal)	9W typical (Airflow min 200 LFM)
Device Support	1024 Non-RAID devices
Environmental	Operating: 0°C to 55°C; 5 to 90% Non-condensing Storage: -45°C to 105°C; 5 to 90% Non-condensing
MTBF	> 3,000,000 hours
Regulatory Certifications	EMC: Class B-US (CFR 47, P15B); Canada (ICES-003); Japan (V-3/02.04); Europe (EN55022/EN55024); Australia/New Zealand (AS/NZS3548); Safety: EN60950; RoHS 6 of 6; WEEE
OS Support	Microsoft Windows, Linux (SuSE, Red Hat), Solaris, VMware See <a href="http://www.intel.com">http://www.intel.com</a> for details on versions
Warranty	3 years; with advanced replacement option Free technical support at <a href="http://www.intel.com">http://www.intel.com</a>

For more information on the Intel® SAS Controller RS25GB008, visit: [www.intel.com/go/RAID](http://www.intel.com/go/RAID)

For more information on how to make the Intel® SAS Controller RS25GB008 part of your server environment, please contact an Intel® Channel Partner Program participant.

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