

Product Brief
Intel® RAID Controller
SASUC8I

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Entry-Level SAS/SATA Controller Delivers Low Cost Hardware RAID

Product Overview

The Intel® RAID Controller SASUC8I is ideal for servers and workstations needing high-speed data transfer with the option for entry-level hardware RAID data protection. This RAID controller allows for point-to-point connections with a SAS universal interconnect interface allowing for 1.5 and 3Gb/s SATA hard disk drives along with logical SCSI compatibility for the extra reliability and manageability that SAS drives provide.

While other SAS controllers drive large RAID software stacks between the host CPU and controller, the SASUC8I utilizes the embedded CPU in the LSI SAS1068E ASIC to perform RAID 0, 1, and 1E/10E operations. By reducing RAID code overhead, the SASUC8I offers superior internal READ/WRITE performance.

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.



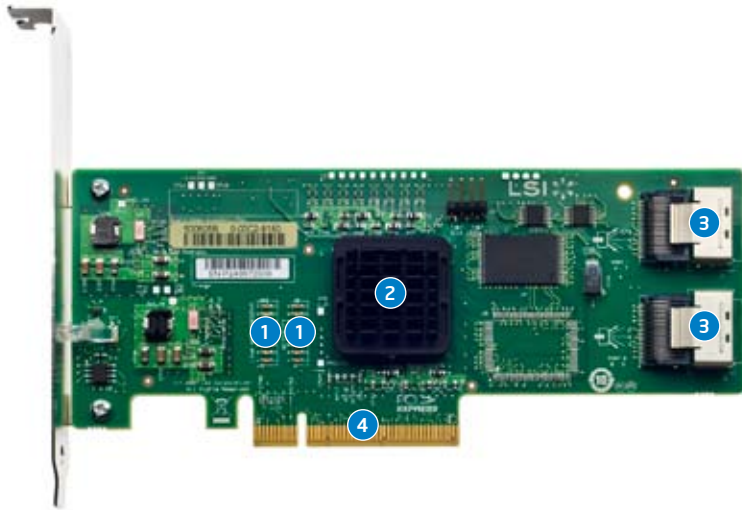
Key Advantages

- **Cost Effective Data Protection.** Provides a low-cost RAID 0, 1, and 1E/10E solution for entry-level server and workstation environments where high-performance and reliable data protection are required.
- **SAS or SATA Storage.** Connect SAS or SATA devices within the array. Use SAS drives for speed, reliability, and scalability; use high-capacity SATA drives for budget-friendly storage.
- **Scalability.** Supports 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 through expander backplane support.
- **Ultra thin driver.** LSI Fusion-MPT* architecture provides over 140,000 I/Os per second while communicating over the PCI Express* 8-lane Host Bus.
- **Increased IT productivity.** Includes a suite of tools that are common across all Intel SAS/SATA RAID solutions, for easy installation and advanced management.

Features

Intel® RAID Controller SASUC8I *Enabled by LSI*

- 1 Drive Fault and Individual Activity LED Connector Interfaces
- 2 LSI SAS1068E controller
- 3 Two SFF8087 connectors for up to eight internal SAS/SATA ports
- 4 PCI Express* x8 interface for fast communication with the server board



For more information on the Intel® RAID Controller SASUC8I, visit: www.intel.com/go/RAID

To build your system and get more details on Intel server configurations, visit: www.intel.com/go/serverconfigurator

For more information on how to make the Intel® RAID Controller SASUC8I part of your server environment, please contact an Intel® Channel Partner Program participant.

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Technical Specifications

RAID Levels	RAID Levels 0, 1, 1E/10E
Fault Tolerant Features	Distributed Sparing Hot Spare Support Expander Support Enclosure Management S.M.A.R.T. Support RAID support before operating system loaded
Intel® RAID Software	Intel® Embedded RAID II Configuration Utility Intel® RAID Web Console 2 Intel® SAS Flash
I/O Processor	LSI SAS1068E
Drive Types	SAS or SATA 3 Gb/s
Maximum Drives	Up to 122 physical devices supported with SAS mode and up to 14 devices with RAID 0/1/1E/10E
Connectors	Two SAS SFF8087 x4 SAS internal connectors
PCI Interface	PCI Express* x8
Form Factor	Low profile, MD2 (6.6" X 2.536")
Data Transfer Rates	Up to 3 Gbs per port
Operating Temperature	Maximum ambient: 60°C
Operating Voltage	+3.3V

