

Product Brief

Intel® RAID Controller
SRCSASRB

Intel® RAID Controller SRCSASRB

Exceptional Data Protection with RAID-On-Chip and Serial Attached SCSI Technology for Mainstream Applications



Product Overview

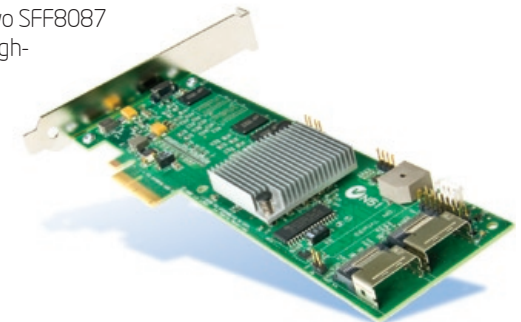
The Intel® RAID Controller SRCSASRB is one in a family of Intel first-generation RAID solutions to use RAID-On-Chip (ROC) technology, delivering state-of-the-art power and performance. Support for RAID 6 and 60 strengthens data protection capabilities in the SRCSASRB by ensuring data integrity, even if two drives fail simultaneously.

Designed to perform well in both high-I/O transactions and high-bandwidth processing, the SRCSASRB features SAS protocol support, SATA native command queuing (NCQ), and 256 MB of integrated 667 MHz write cache. This combination allows mainstream applications such as databases and collaboration tools to run faster than ever.

All Intel RAID solutions are validated across multiple platforms with Intel boards, chassis, and systems. Customized training, as well as Intel service and support, makes Intel the one source for customers seeking data protection, increased productivity, and simplified IT.

Key Advantages

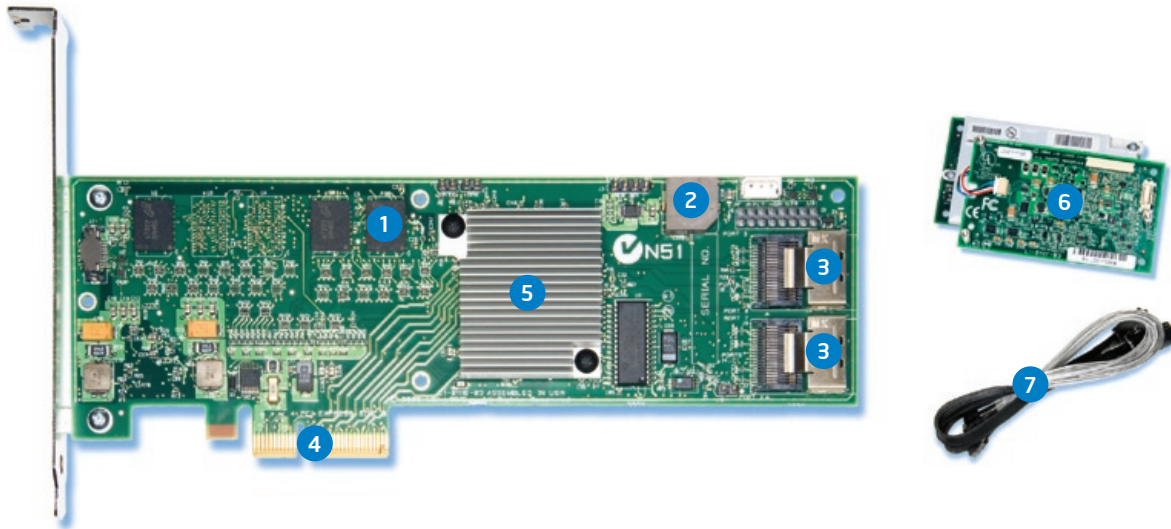
- **Exceptional data protection**—supports data redundancy using SAS or SATA hard disk drives through mirroring, parity, and double parity (RAID levels 1, 5, and 6) plus striping capability for spans (RAID levels 10, 50, and 60).
- **Excellent performance**—ROC technology directly connected to 256 MB embedded 667 MHz cache enhances the performance of mainstream applications.
- **Outstanding availability**—delivers proactive drive monitoring and automatic error correction. An optional battery backup maintains data without the need for an uninterruptible power supply.
- **Increased IT productivity**—includes a suite of tools that are common across multiple Intel RAID solutions for easy installation and advanced management.
- **SAS/SATA flexibility**—features eight internal 3 GB/s Serial Attached SCSI (SAS) ports on two SFF8087 mini connectors, and is designed for high-performance SAS disks, low-cost/high-capacity SATA drives, or a combination of both.



Features

Intel® RAID Controller SRCASRB

- 1 Embedded 256 MB 667 MHz cache (ECC DDR2 memory)**
- 2 Speaker** to deliver audible alerts
- 3 Two SFF8087 SAS/SATA connectors** for up to eight internal ports
- 4 PCI Express* x4 interface** for fast communication with the server board
- 5 LSI Logic* 1078 SAS ROC controller**
- 6 Optional Intel® Smart Battery AXXRSBBU4** for up to 72 hours of cache data retention
- 7 Two internal cables with SFF8087 connectors** that expand to four individual connectors



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

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 SRCASRB part of your server environment, please contact an Intel® Channel Partner Program participant.

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Technical Specs

RAID Levels and Spans	RAID Levels 0, 1, 5, and 6 RAID Spans 10, 50, and 60
Fault Tolerant Features	Online Capacity Expansion Hot Spare Support Enclosure Management S.M.A.R.T. Support
Intel® RAID Software	Intel® RAID BIOS Console Intel® RAID Web Console 2 Intel® RAID Flash Utilities
I/O Processor	LSI Logic* 1078 SAS ROC at 500 MHz, and dual- independent DMA controllers
Drive Type	SAS or SATA 3Gb/s drives
Maximum Drives	Up to 32 devices supported
Connectors	Two SAS SFF8087 Mini-SAS 4i internal connectors
Cache Memory	Embedded 256 MB ECC DDR2, 40b wide
PCI Interface	PCI Express* x4
BBU Support	AXXRSBBU4
Form Factor	Low profile, extended half-length (7.75" x 2.525")
Data Transfer Rates	Up to 3 GB/s per port
Operating Temperature	Minimum ambient: 0°C ; Maximum ambient: 50°C (10°C to 40°C w/optional BBU)
Operating Voltage	+3.3V
Battery Backup Unit	Intel® Smart Battery AXXRSBBU4

