

## Product Brief

Intel® RAID Controller  
SRCASJV

# Intel® RAID Controller SRCASJV

## Highly Flexible RAID-On-Chip-based Solution with Configurable Ports and Ample Expandability for Performance Applications



### Product Overview

The Intel® RAID Controller SRCASJV is one in a family of Intel first-generation RAID solutions to use RAID-On-Chip (ROC) technology. This powerful design delivers high performance with excellent data checking, protection, and restoration capabilities for server, storage, and workstation applications.

The SRCASJV is also highly flexible. An important feature is the high-performance multi-plexer (MUX) which allows configuring of eight ports for internal or external use, or both. Solutions can be built for up to 240 disks, using high-performance SAS disks or high-capacity SATA drives—or a combination of each.

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

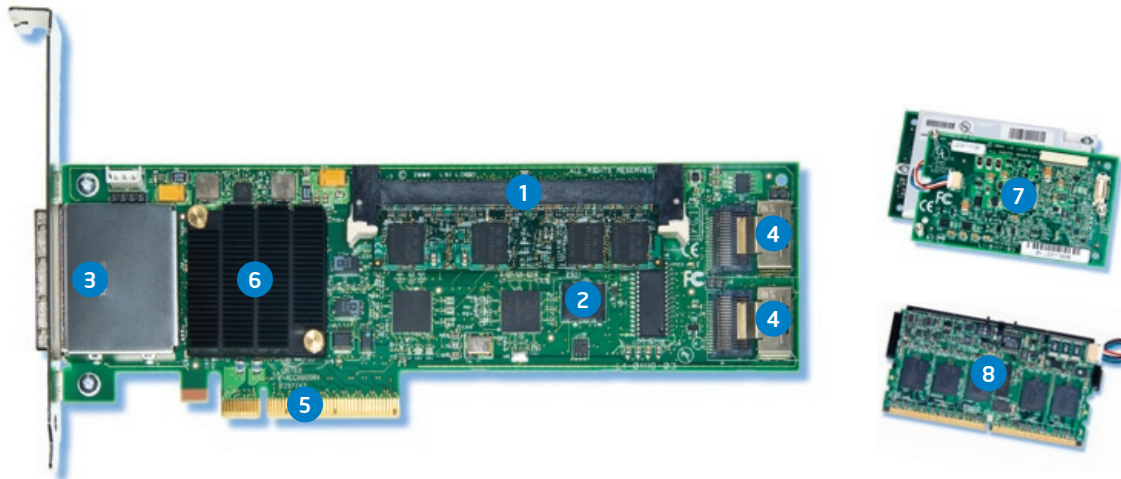
- **Exceptional data protection**—supports all key RAID levels including RAID 6 and 60, which maintain data integrity even during simultaneous failure of two drives—particularly important with SATA drives.
- **Higher performance**—the latest ROC technology and 667 MHz cache delivers over 1.5 GB/s throughput to excel in situations requiring high I/O, such as streaming video or data back-up.
- **Outstanding availability**—delivers proactive drive monitoring, automatic error correction, and hot-spare support. An optional battery backup unit or portable cache module 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.
- **Flexibility**—a common RAID controller supports varying systems requirements including configurable support for internal RAID, external RAID, or both.



## Features

# Intel® RAID Controller SRCASJV

- 1 Includes 512 MB 667 MHz ECC DDR2 SDRAM module;** expandable to 1 GB
- 2 Speaker** to deliver audible alerts
- 3 SFF8088 SAS/SATA connector** for up to eight external ports
- 4 Two SFF8087 SAS/SATA connectors** for up to eight internal ports
- 5 PCI Express\* x8 connector** for fast communication with the server board
- 6 LSI Logic\* 1078 SAS ROC controller**
- 7 Optional Intel® Smart Battery AXRSBBU3** for up to 48 hours of cache data retention
- 8 Optional Intel® Portable Cache Module AXPRCM3** for up to 72 hours of cache data retention
- 9 Two internal cables with SFF8087 connectors** that expand to four individual connectors (not shown)



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

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

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

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## Technical Specs

<b>RAID Levels and Spans</b>	RAID Levels 0, 1, 5, and 6 RAID Spans 10, 50, and 60
<b>Fault Tolerant Features</b>	Online Capacity Expansion Hot Spare Support Enclosure Management S.M.A.R.T. Support
<b>Intel® RAID Software</b>	Intel® RAID BIOS Console Intel® RAID Web Console 2 Intel® RAID Flash Utilities
<b>I/O Processor</b>	LSI Logic* 1078 SAS ROC at 500 MHz, and dual- independent DMA controllers
<b>Drive Type</b>	Selectable eight-port SAS RAID solution with flexibility to use either SAS or SATA 3 Gb/s drives, or a combination of both
<b>Maximum Drives</b>	Up to 240 devices supported
<b>Connectors</b>	Two SAS SFF8088 Mini-SAS 4i external connectors Two SAS SFF8087 Mini-SAS 4i internal connectors
<b>Cache Memory</b>	Ships with 512 MB 667 MHz ECC DDR2 SDRAM module; 72b wide; expandable to 1GB
<b>PCI Interface</b>	PCI Express* x8
<b>Form Factor</b>	Low profile, extended half-length (8.25" x 2.525")
<b>Data Transfer Rates</b>	Up to 3 GB/s per port
<b>Operating Temperature</b>	Minimum ambient: 0°C; Maximum ambient: 50°C (10°C to 40°C w/optional BBU)
<b>Operating Voltage</b>	+3.3V
<b>Battery Backup Unit</b>	Intel® Smart Battery AXRSBBU3; or Intel® Portable Cache Module AXPRCM3

