

## Product Brief

Intel® RAID Controller  
SRCSATAWB

# Intel® RAID Controller SRCSATAWB

## Enhanced Data Protection with RAID-On-Chip Technology and RAID 6 for Entry-Level Applications



### Product Overview

The Intel® RAID Controller SRCSATAWB 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. Designed for solutions using low-cost, high-capacity SATA hard drives, the SRCSATAWB offers features typically found in higher-end RAID solutions, such as RAID 6 and expander-based backplane support.

Through the use of double parity, RAID 6 delivers data protection even in the case of two simultaneous hard drive failures—a scenario far too common during the stressing of SATA hard disk drives. The SRCSATAWB is built on SAS technology, and therefore is compatible with the same software stack as Intel's SAS ROC-based solutions. The SRCSATAWB also supports drive bays with expander-based backplanes and up to 16 hot-swap drives.

All Intel RAID solutions are validated across multiple platforms with all 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

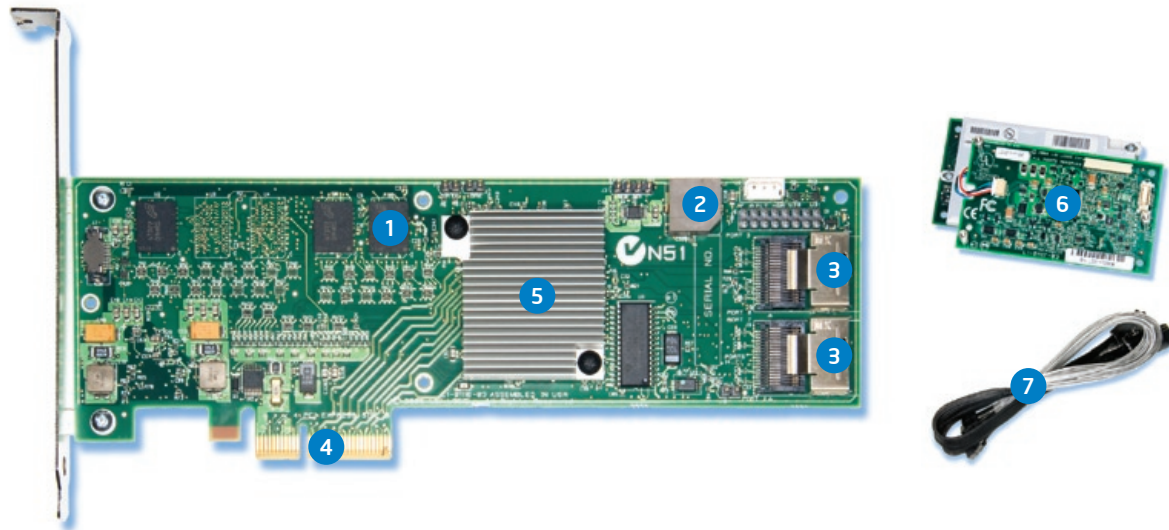
- **Exceptional data protection**—supports data redundancy using SATA hard disk drives through mirroring, parity, and double parity (RAID levels 1, 5, and 6) plus striping capability for spans (RAID levels 10, 50, and 60).
- **Powerful and cost effective**—includes the same ROC technology and Intel RAID software as higher-price cards, with features optimized for budget friendly entry-level SATA solutions.
- **Excellent availability**—delivers proactive drive monitoring and automatic error correction. An optional battery backup maintains data without the need for an uninterruptible power supply.
- **Support for expander-based backplanes**—with a SAS-derivative design, the SRCSATAWB allows for hot-swap SATA drives with active back planes and up to 16 hard disk drives.
- **Increased IT productivity**—includes a suite of tools that are common across multiple Intel RAID solutions for easy installation and advanced management.



## Features

# Intel® RAID Controller SRCSATAWB

- 1 Embedded 128 MB 667 MHz cache (ECC DDR2 memory)**
- 2 Speaker** to deliver audible alerts
- 3 Two SFF8087 SAS/SATA connectors** for up to eight ports (Supports SATA drives only. Expander-based backplanes are supported.)
- 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 SRCSATAWB, 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 SRCSATAWB 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>	3 Gb/s SATA drives
<b>Maximum Drives</b>	Up to 16 devices supported
<b>Connectors</b>	Two SAS SFF8087 Mini SAS 4i internal connectors
<b>Cache Memory</b>	Embedded 128 MB ECC DDR2, 40b wide
<b>PCI Interface</b>	PCI Express* x4
<b>BBU Support</b>	AXXRSBBU4
<b>Form Factor</b>	Low profile, extended half-length (7.75" 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 AXXRSBBU4

