

Product Brief  
Intel® RAID Controller  
SASWT4I

# Intel® RAID Controller SASWT4I

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

## Product Overview

The economical Intel® RAID Controller SASWT4I offers exceptional entry-level hardware SAS/SATA RAID and non-RAID data off-load for server systems and workstations. This RAID controller allows for point-to-point connections with a SAS universal interconnect interface allowing for 1.5 and 3 Gb/s SATA hard disk drives along with logical SCSI compatibility for the extra reliability and manageability that SAS drives provide.

The SASWT4I leverages the LSI SAS1064E ASIC's advanced LSI Fusion-MPT\* architecture to provide entry-level hardware RAID. While other SAS controllers drive large RAID software stacks between the host CPU and controller, this RAID controller utilizes the embedded CPU in the LSI SAS1064E ASIC to perform integrated RAID 0, 1, and 1E/10E operations. By avoiding the PCI bus traffic and reducing RAID code overhead, the SASWT4I delivers world-class READ/WRITE operations.

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.



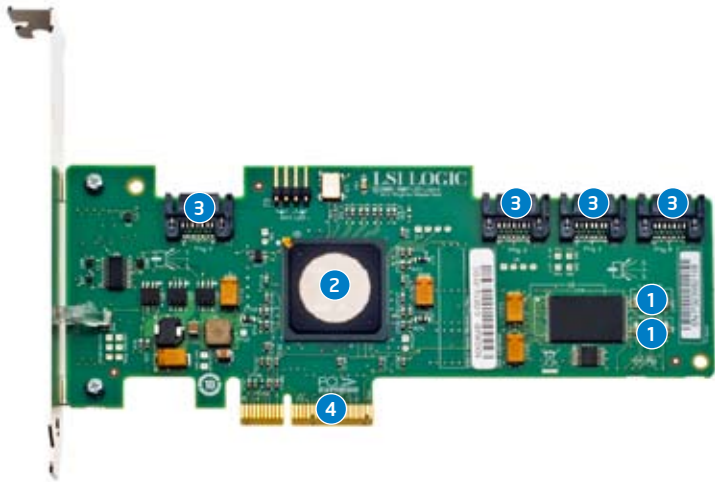
## Key Advantages

- **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\* 4-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 SASWT4I *Enabled by LSI*

- 1 Drive Fault and Individual Activity LED Connector Interfaces
- 2 LSI SAS1068E controller
- 3 SATA x1 connectors for up to four SAS/SATA ports
- 4 PCI Express\* x4 interface for fast communication with the server board



For more information on the Intel® RAID Controller SASWT4I, visit: [www.intel.com/go/RAID](http://www.intel.com/go/RAID)

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 SASWT4I 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 Sparring 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 SAS1064E
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	Four SATA x1 SAS internal connectors
PCI Interface	PCI Express* x4
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

