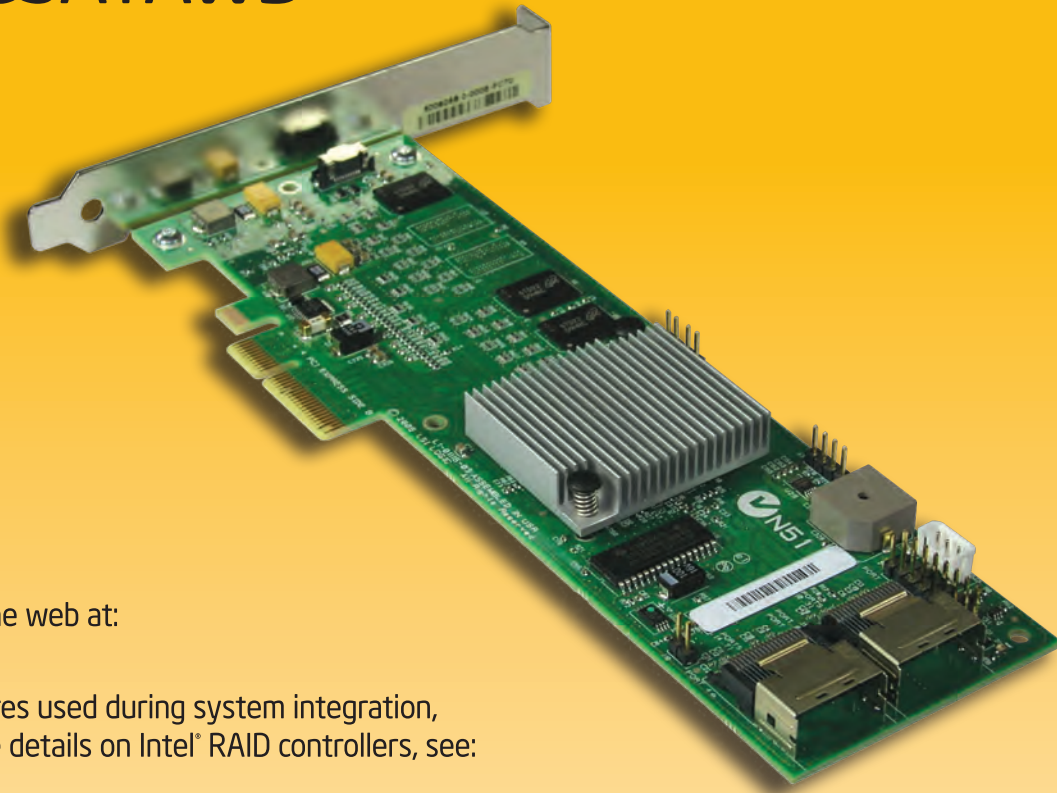


Intel® RAID Controller SRC SATAWB Quick Start User's Guide



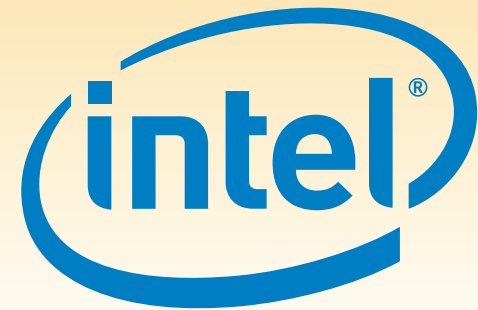
This guide contains step-by-step instructions for installing the Intel® RAID Controller SRC SATAWB and information on using the BIOS setup utility to configure a single logical drive array and install the driver into the operating system.

For more advanced RAID configurations, or to install with other operating systems, please refer to the Hardware User's Guide.

These guides and other supporting documents (including a list of supported server boards) are also located on the web at: <http://support.intel.com/support/motherboards/server>.

If you are not familiar with ESD (Electrostatic Discharge) procedures used during system integration, see your Hardware Guide for complete ESD procedures. For more details on Intel® RAID controllers, see: www.intel.com/go/serverbuilder.

Read all cautions and warnings first before starting your RAID Controller integration.



Choosing the Right RAID Level

| RAID | Minimum Physical Drives | Fail PDs Allowed | Method | Capacity | Read Speed | Write Speed | Good Usage |
|------|-------------------------|------------------|---|-----------------|------------|-------------|------------------------------|
| 0 | 2 | NONE | Striping (speed) | 100% | Excellent | Excellent | High throughput workstation |
| 1 | 2 min & max | 1 | Mirroring (redundancy) | 50% | Very good | Good | OS, apps entry level |
| 5 | 3 | 1 | Striping & distributed parity (fault tolerance) | n-1 (67-94%) | Very good | Good | Data, web/media server |
| 6 | 4 | 2 | Striping with dual distributed parity | n-2 (50-88%) | Good | Good | High fault tolerance |
| 10 | 4 | 1 per mirror set | Striping across mirrors | 50% | Very good | Good | Database, file, mail servers |
| 50 | 6 | 1 per R5 set | Striping across R5 arrays | n-2 (67-94%) | Excellent | Very Good | Database, file, mail servers |
| 60 | 8 | 2 per R6 set | Striping across R6 arrays | n-4 (50-88%) | Very good | Good | Critical data |

Warning

Read all caution and safety statements in this document before performing any of the instructions. Also see the *Intel® Server Board and Server Chassis Safety Information* document at: <http://support.intel.com/support/motherboards/server/sb/cs-010770.htm> for complete safety information.

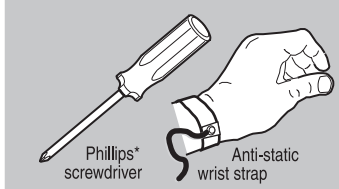
Warning

Installation and service of this product should only be performed by qualified service personnel to avoid risk of injury from electrical shock or energy hazard.

Caution

Observe normal ESD (Electrostatic Discharge) procedures during system integration to avoid possible damage to server board and/or other components.

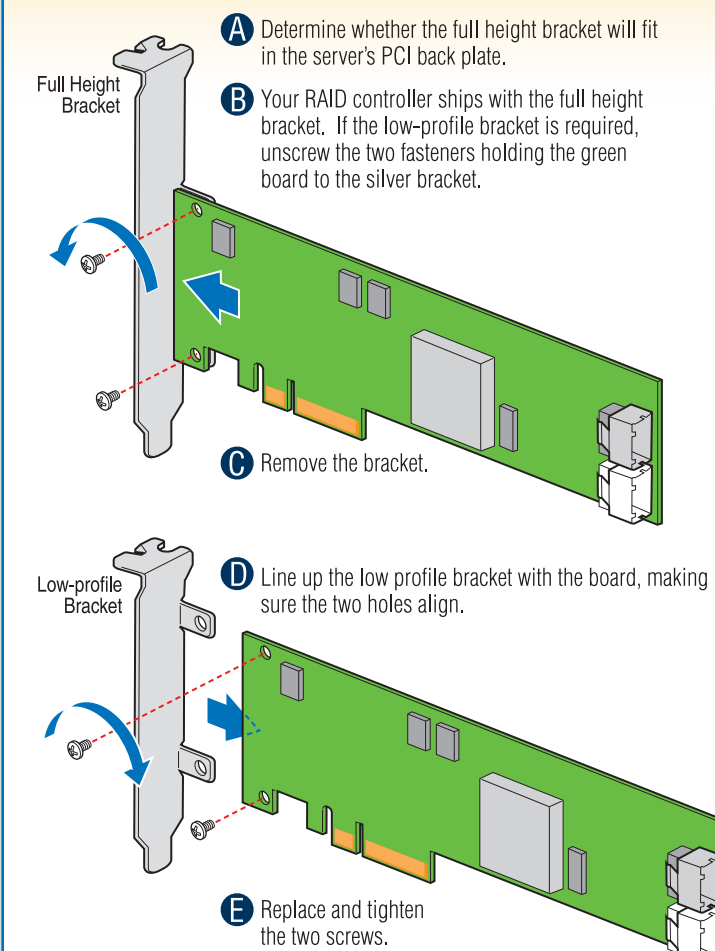
Tools Required



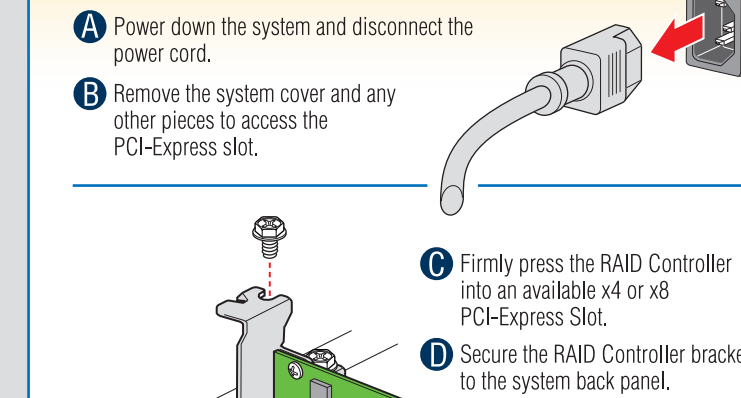
What you will need to begin

- SATA 3.0 hard disk drives
- Intel® RAID Controller SRC SATAWB
- Server board with an x4 or x8 PCI Express® slot
- Intel® RAID Controller SRC SATAWB Resource CD
- Operating system installation media: Microsoft Windows Server 2003*, Microsoft Windows 2000* Advanced Server, Red Hat* Linux or SUSE Linux Enterprise Server

1 Check the Bracket Height



2 Install the RAID Controller



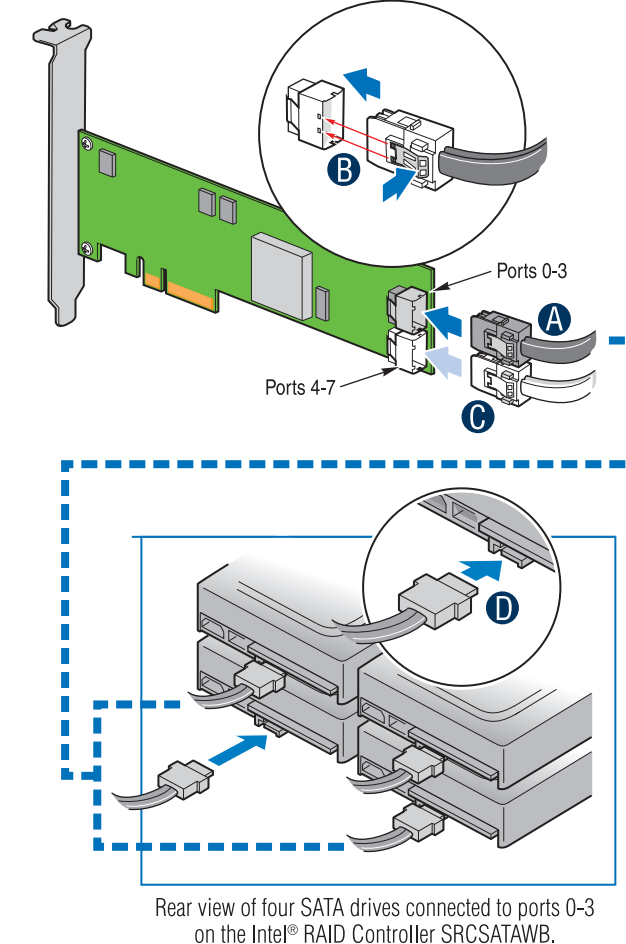
Audible Alarm Information

For information about the audible alarm and how to silence or disable it, see the reverse side of this document.

3 Connect the RAID Controller

- A** Connect the wide end of the provided cable to the top silver connector (ports 0-3).
- B** Push the cable into the silver connector until it makes a slight click.
- C** If using more than four drives, connect the wide end of the second provided cable to the lower silver connector (ports 4-7).
- D** Connect the other ends of the cables to SATA drives or to the ports on a SATA or SAS backplane.

Notes: Both non expander backplanes (one cable per drive) and expander backplanes (one or two total cables) are supported. Drive power cables (not shown) are required.



Go to Step 4 on Side 2

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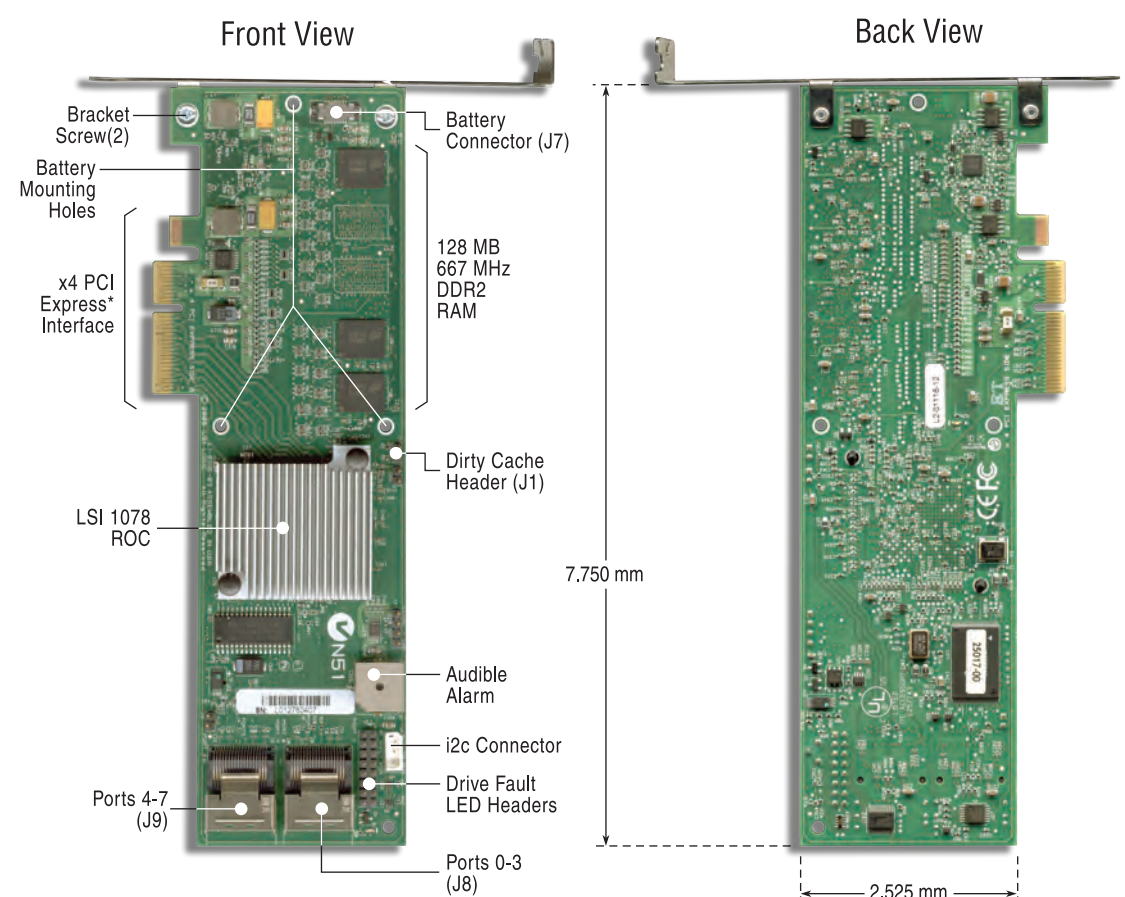
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Intel® RAID Controller SRC SATAWB Reference Diagram



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