Intel® RAID Controller RS2WC080 Quick Start User's Guide

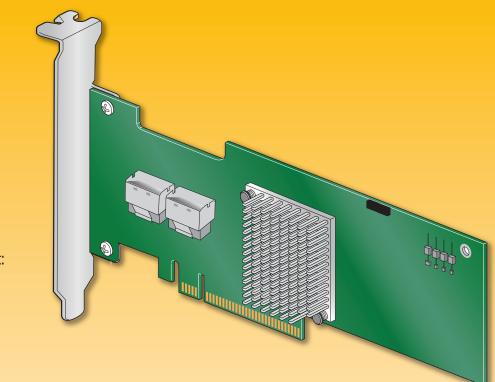
This guide contains step-by-step instructions for installing the Intel® RAID Controller RS2WC080 and information on using the BIOS setup utility to configure a single logical drive array and install the driver into the operating system.

For more advanced RAID configurations, or to install with other operating systems, please refer to the Software User's Guide and 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	D1 D3 D5 D7 Disk 1 Disk 2	2	NONE	Striping (speed)	100%	Excellent	Excellent	High throughput workstation
1	D1 D1 D2 D3 D4 Disk 1 Disk 2	2	1	Mirroring (redundancy)	50%	Very good	Good	OS, apps entry level
5	D1 D2 P D4 D5 D6 D6 P Disk 3	3	1	Striping and distributed parity (fault tolerance)	n-1 (67-94%)	Very good	Good	Data, web/media server
10	R0 R1 R1 D1 D3 D5 D5 D7 Disk 1 Disk 2 D4 D6 D8 D8 Disk 3 Disk 4	4	1 per mirror set	Striping across mirrors	50%	Very good	Good	Database, file, mail servers

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

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

Observe normal ESD [Electrostatic Discharge] integration to avoid possible damage to server board and/or other components.

Tools Required



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What you will need to begin

- SAS 2.0 or SATA II hard disk drives (backward compatible to support
- SAS 1.0 hard disk drives)
- Intel® RAID Controller RS2WC080
- Server board with a x8 or x16 PCI Express* slot (this controller is designed to meet the x8 PCI Express* Generation 2 specification and is backward compatible with generation 1 slots)
- Intel® RAID Controller RS2WC080 Resource CD
- Operating system installation media: Microsoft Windows Server 2003*, Microsoft Windows Server 2008*, Microsoft Windows Vista*, Red Hat* Enterprise Linux, or SUSE* Linux Enterprise Server

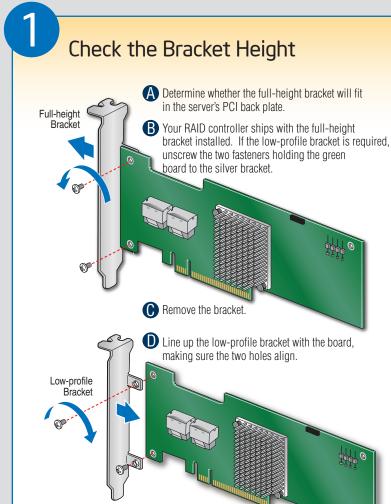
Installation and service of

procedures during system

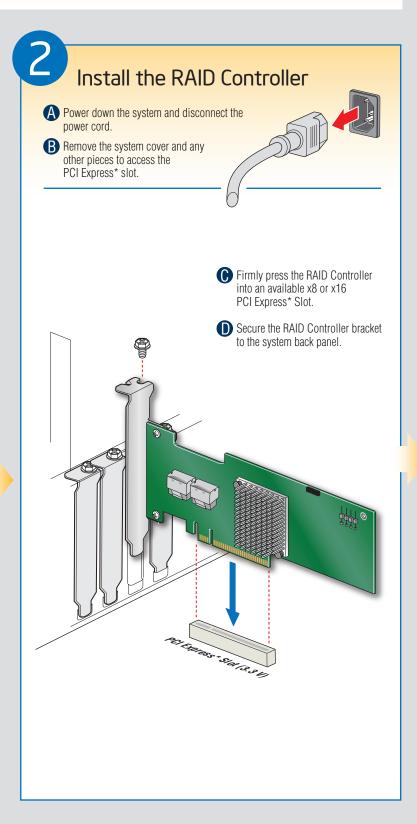


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E64398-002



Replace and tighten the two screws.



Connect the RAID Controller A Connect the wide end of the provided cable to the right silver connector (ports 0-3). **B** Push the cable into the silver connector until it makes a slight click. If using more than four drives, connect the wide end of the second provided cable to the left silver connector (ports 4-7). • 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. Rear view of four SATA drives connected to ports 0-3 on the Intel® RAID Controller RS2WC080. Go to Step 4 on Side 2

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 Product information, including product briefs and technical product

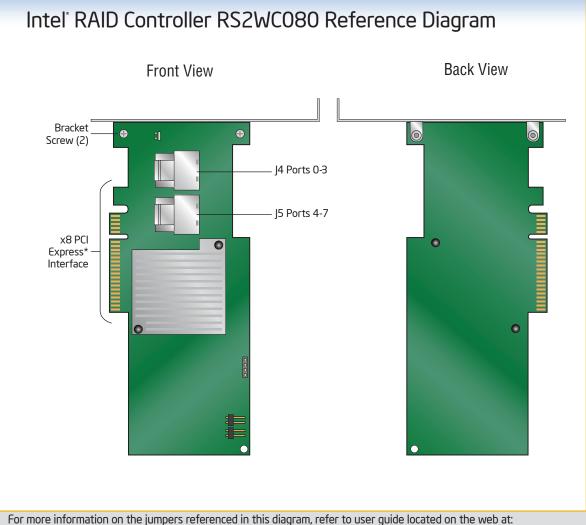
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http://support.intel.com/support/motherboards/server.