



# **Intel® RAID Controller SRCZCRX**

## ***Slot Selection Guide for Intel® Server Boards SE7520JR2 and SE7520BD2***



Revision 1.0

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Enterprise Platforms and Services Division - Marketing

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## ***Revision History***

Date	Revision Number	Modifications
April 2005	1.0	Initial release.

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# Table of Contents

- 1. Introduction ..... 5
- 2. Slot Selection on the Intel® Server Board SE7520JR2..... 6
- 3. Slot Selection on Intel® Server Board SE7520BD2..... 9

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# 1. Introduction

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The Intel® RAID Controller SRCZCRX is a low-profile add-in adapter card that provides a PCI-X\* Modular RAID on Motherboard (MROMB) solution for server boards that include either the LSI Logic\* 53C1020 or the LSI Logic 53C1030 SCSI chip. These server boards must also have an MROMB-enabled PCI-X expansion slot available.

The RAID Controller SRCZCRX uses the single-channel or dual-channel SCSI controller on the server board to provide single or dual-channel U320 SCSI hardware RAID, supporting RAID levels 0, 1, 10, 5, or 50. The RAID Controller SRCZCRX uses the Intel RAID software stack 2.

This document shows the slots into which the Intel® RAID Controller SRCUZCRX can be installed on the Intel® Server Boards SE7520JR2 and SE7520BD2. For hardware installation information, see the *Intel® RAID Controller SRCZCRX Hardware User's Guide*. The hardware user's guide is document available on the CD that came with your RAID Controller SRCZCRX or at <http://support.intel.com/support/motherboards/server/srczcrx/manual.htm>.

## 2. Slot Selection on the Intel® Server Board SE7520JR2

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The Server Board SE7520JR2 provides support for Zero Channel RAID, which follows the RUBI2 standard. The Server Board SE7520JR2 includes a slot into which a riser assembly can be installed. A variety of full-height riser cards can be installed into this riser assembly. Add-in cards are installed into the full-height riser cards and the riser assembly is then inserted into the slot pointed out by the arrow in Figure 1.

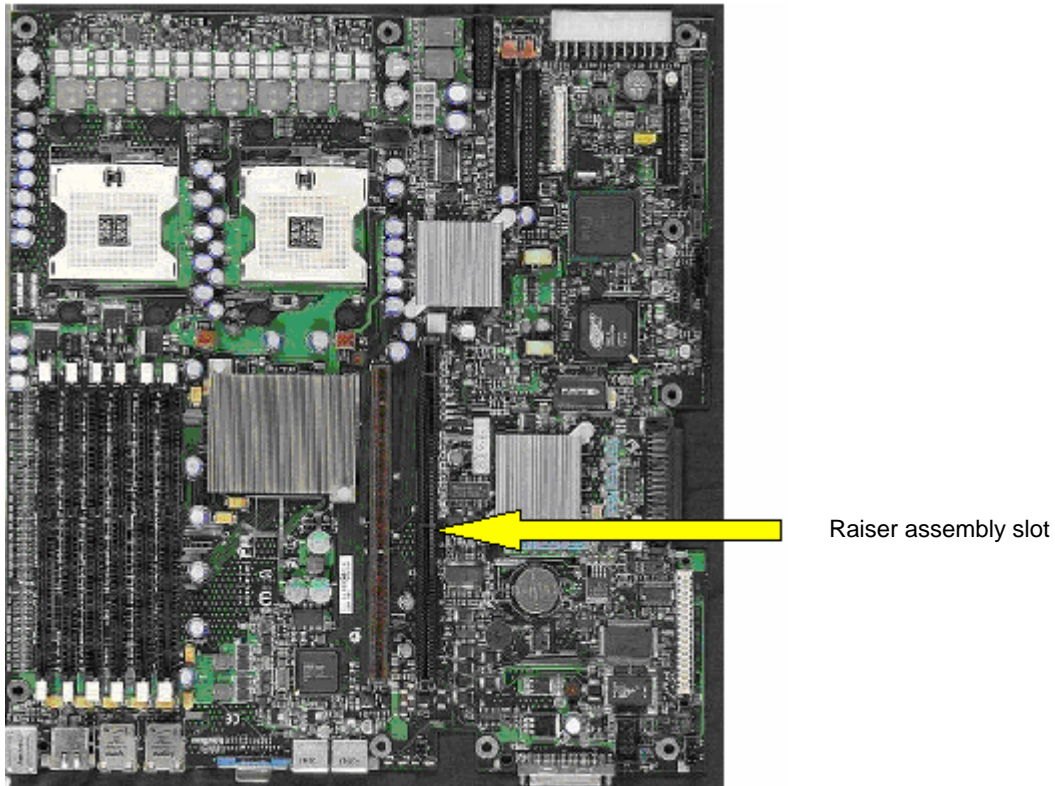


Figure 1. Intel® Server Board SE7520JR2

## Intel® RAID Controller SRCZCRX Slot Selection Guide

The RAID Controller SRCZCRX must be installed on a riser card that is part of the riser assembly. The figures below show the riser card options and the slot into which the RAID Controller SRCZCRX must be installed for each riser card option.

- **2U full-height passive riser card:** When installing the RAID Controller SRCZCRX into the full-height passive riser card, the RAID controller must be inserted in the PCI-X\* add-in slot that will be the furthest from the server board when the riser assembly is installed into the server. Only this slot supports the RAID Controller SRCZCRX.

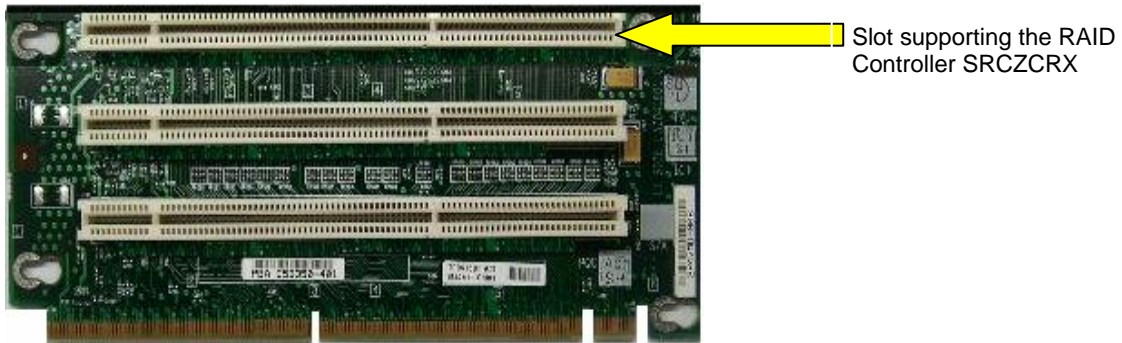


Figure 2. 2U Passive PCI-X Riser Card

- **2U full-height active riser card:** The three-slot active PCI-X riser card includes an onboard PXH chip. This riser card can support up to two PCI-X 133MHz adapters in addition to a PCI-X 100MHz adapter. When installing the SRCZCRX RAID controller, it MUST be populated in the PCI-X slot nearest to the baseboard. No other add-in card slot on this riser has support for the SRCZCRX.

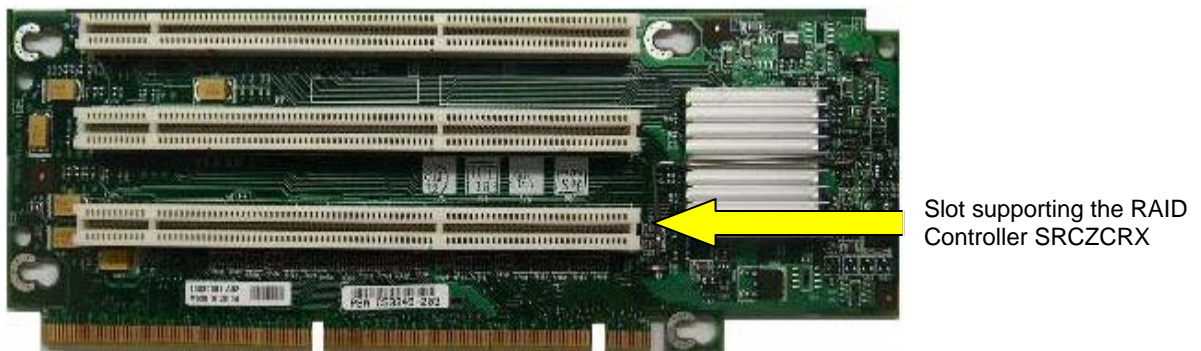


Figure 3. 2U Active PCI-X Riser Card

## Intel® RAID Controller SRCZCRX Slot Selection Guide

- **2U full-height PCI-Express\* riser card:** The full-height PCI-Express riser card utilizes an Intel® Adaptive Slot, which is capable of supporting both the PCI-X and PCI-Express bus specification. The RAID Controller SRCZCRX is compatible with the slot on this riser.



Slot supporting the RAID Controller SRCZCRX

Figure 4. 2U PCI-Express Riser Card

- **1U Full-height PCI-X riser card:** Two types of 1U full-height riser cards are available: one supports PCI-X adapters and one supports PCI-Express adapters. The RAID Controller SRCZCRX is compatible only with the PCI-X riser card.



Slot supporting the RAID Controller SRCZCRX

Figure 5. 1U PCI-X Riser Card



### 3. Slot Selection on Intel® Server Board SE7520BD2

PCI-X slot 2 on the Server Board SE7520BD2 provides support for MROMB. This slot is compatible with the RUBI2 specification and can be used for the RAID Controller SRCZCRX. On the Server Board SE7520BD2, only PCI-X slot 2 can be used for the RAID Controller SRCZCRX.

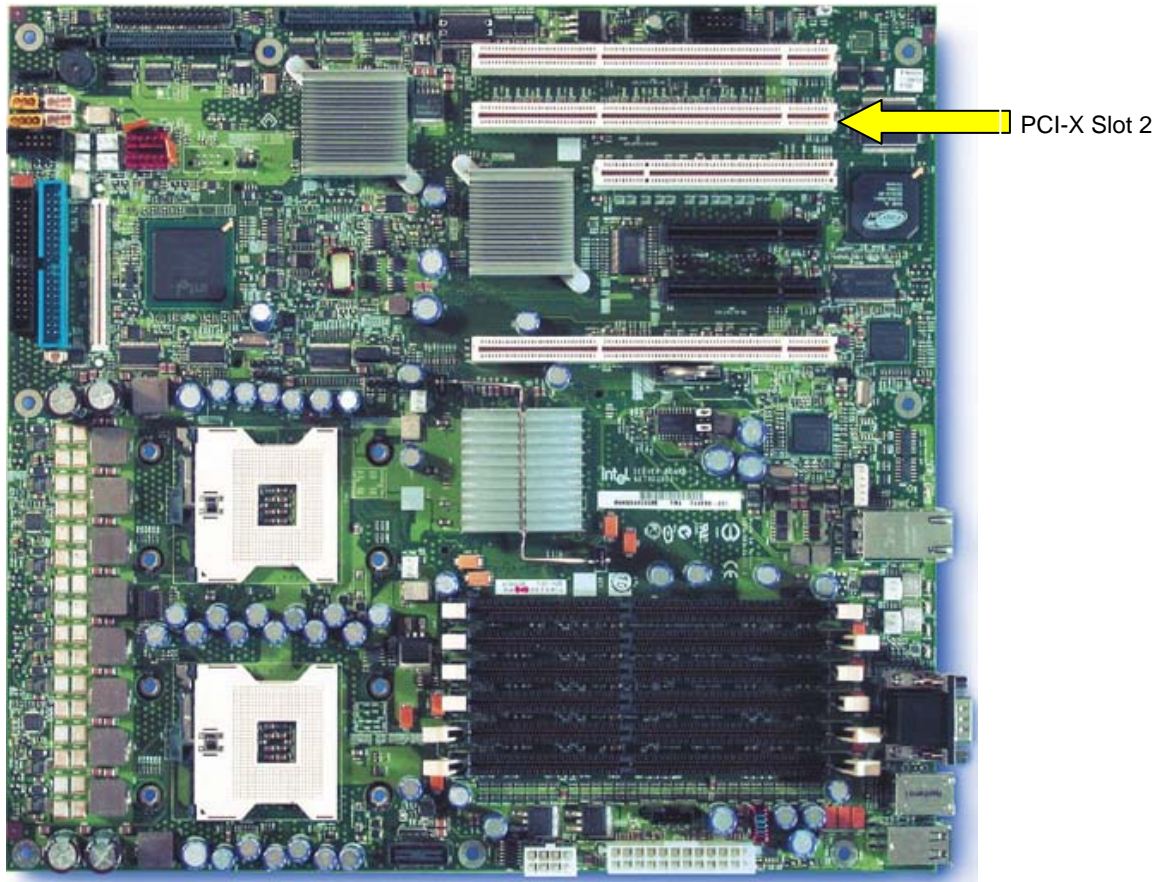


Figure 6. Intel® Server Board SE7520BD2