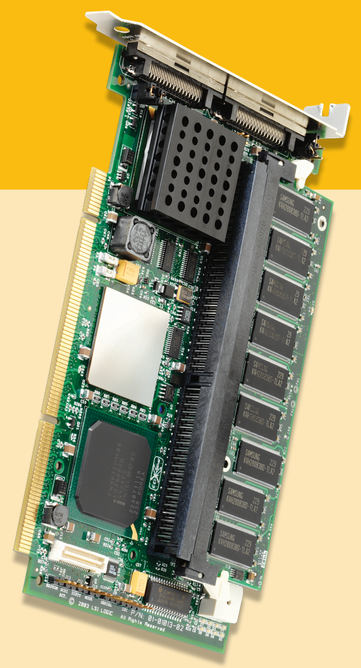
Intel® RAID Controller SRCU42X Quick Start User's Guide



This guide contains step-by-step instructions for installing Microsoft* Windows* Server 2003/Microsoft* Windows* 2000 Advanced Server or Red Hat* Linux 8.0/9.0 on a single RAID volume using available disks. If you plan to use a different operating system, need a more advanced RAID configuration, or need safety and regulatory information, you should refer to the Hardware and Software Guides. You can find these guides on the Resource CD accompanying the Intel® RAID Controller SRCU42X. 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, please see your Hardware Guide for complete ESD procedures.
For more details on Intel® RAID controllers please see: www.intel.com/go/serverbuilder

What you will need

- SCSI hard disk drives
- Intel® RAID Controller SRCU42X
- Server board with a PCI-X compatible slot
- Intel® RAID Controller SRCU42X Resource CD
- A blank formatted diskette
- Operating System: (Microsoft® Windows* Server 2003/Microsoft® Windows* 2000 Advanced Server or Red Hat® Linux 8.0/9.0) Installation Media

Important Information

You can find the Hardware and Software Guides on the Resource CD that accompanied the Intel® RAID Controller SRCU42X.

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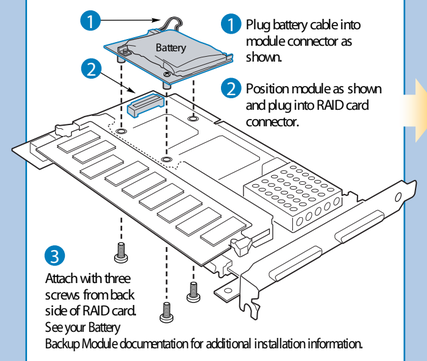
[1]Available only to Intel® Channel Program Members, part of Intel® e-Business Network.

1 Make an OS Installation Diskette

```
ROMDOS Startup Menu

  1. Make Diskettes
  2. Flash Recovery Utility
  3. Storage Console
  4. Exit & Reboot

Enter Choice: 1
```

1. Boot from the Intel® RAID Controller SRCU42X Resource CD.
2. Select "Make Diskettes."
3. Create an operating system installation diskette.

2 Install Battery Backup Module (optional)



3 Install the Intel® RAID Controller SRCU42X in the server board

1. Power down the system, disconnect power cord(s), and remove the system cover.
2. Install the Intel® RAID Controller SRCU42X into an available PCI-X slot.

Note: See your Server Chassis documentation for "add-in" card installation procedure(s).

4 Attach SCSI Cables

1. Connect one end of the SCSI cable to the internal or external SCSI connector located on the Intel® RAID Controller SRCU42X.

   Note: Refer to the "Intel® RAID Controller SRCU42X Diagram" on Side 2 of this Quick Start User's Guide for SCSI connector locations.

2. Connect the other end of the SCSI cable to the SCSI drives or drive enclosure.

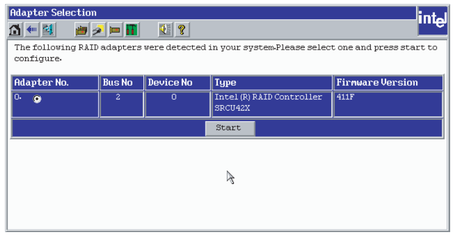
5 Use the Intel® RAID BIOS Console to Create a RAID Volume

Note: As necessary, refer to "Choosing the Right RAID Level" on Side 2 of this Quick Start User's Guide for a brief description of RAID levels.

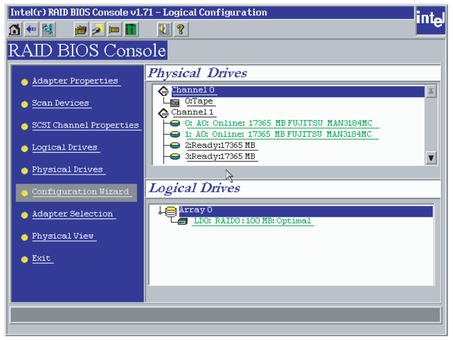
1. Power on the system and press <Ctrl> + <G> when the screen below appears.

```
PCI RAID Storage Controller BIOS Version T105 (Build June 20,2003)

 [ PCI 0/1 ] Self-tests OK, IRQ 11
 [ PCI 0/1 ] Intel Storage RAID Controller  Firmware Version T310
 [ PCI 0/1 ] Controller DRAM=128MB (SDRAM)
 [ PCI 0/1 ] Battery module is present
 [ PCI 0/1 ]  Channel-0 ID-0 -- QUANTUM  VIKING II 4.5WLS (40MB/s)
 [ PCI 0/1 ]  Channel-0 ID-4 -- IBM      DCAS-34330W    (20MB/s)
 [ PCI 0/1 ] 1 Logical Drives found on the host controller.
 1 logical drive(s) handled by BIOS.

 >>>>>> Press <Ctrl><G> to enter the RAID Storage Console <<<<<<
 RAID Configuration Utility will Start after POST completes
 Copyright (c) LSI Logic Corp.            All rights reserved !
```

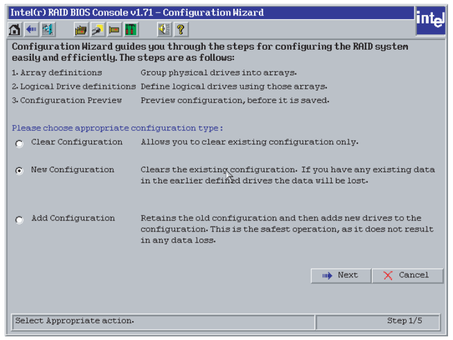
2. The following two messages will appear at the bottom of the screen: "Intel® RAID BIOS Console will start after POST completes", "Please wait to start Intel® RAID BIOS Console …"
3. When Intel® RAID BIOS Console starts, it will display the Intel® RAID Controller SRCU42X installed in the system. Click on the "Adapter No." radio button, then click **Start.**



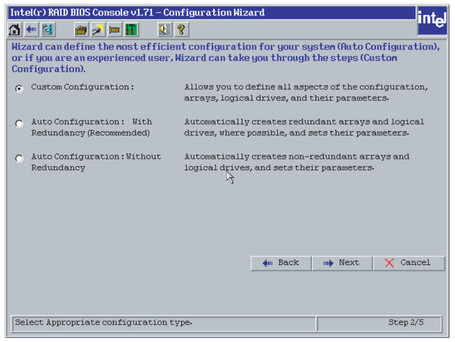
4. After a brief pause, the RAID BIOS Console screen will appear. Click on **Configuration Wizard.**



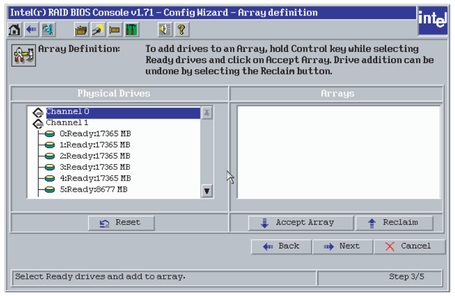
5. Select **New Configuration** and click **Next**.



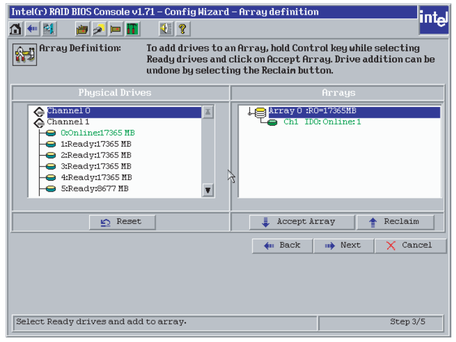
6. For this example, we used **Custom Configuration.** Click **Next.** (For further information, refer to the Software Guide on the Resource CD.)



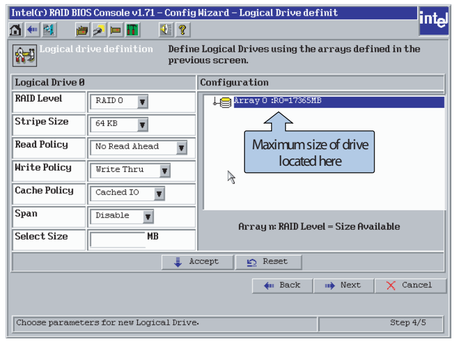
7. Add physical drives to the array by holding the control key while clicking on ready drives. Once you have selected all of the drives you wish to add to the array, click **Accept Array** and then click **Next.**



8. You can define further arrays or click **Accept Arrays** if finished and then click **Next.**



9. Select the **RAID Level** from the pull-down box. Select the **Stripe Size.** Enter in the size of the logical drive. Click **Accept.**



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