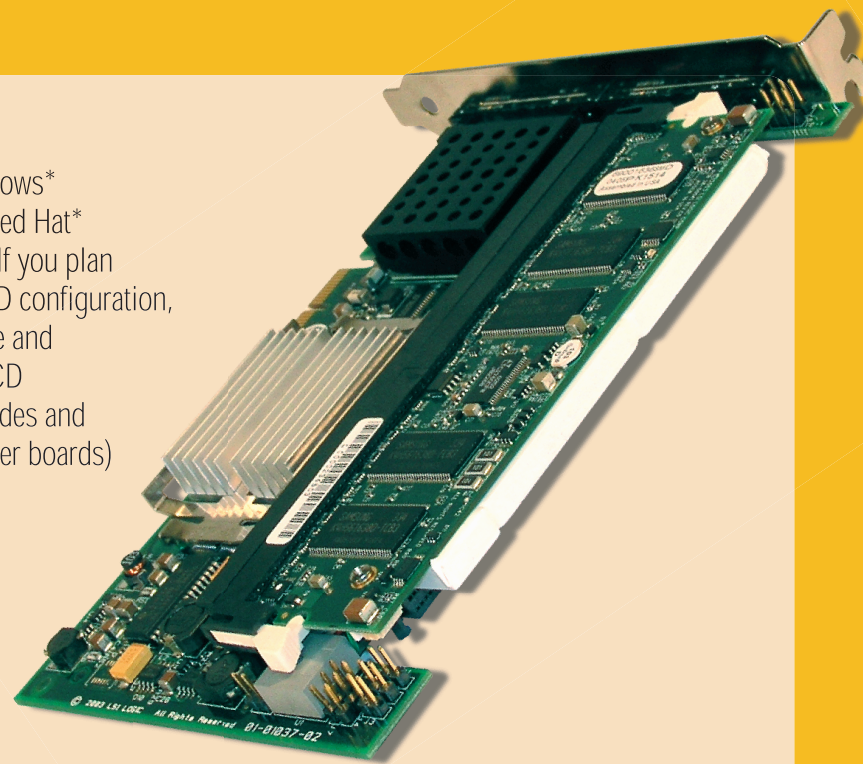




Intel® RAID Controller SRCU42E Quick Start User's Guide

This guide includes 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, refer to the Hardware and Software Guides. You can find these guides on the Resource CD accompanying the Intel® RAID Controller SRCU42E. 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



Note: Figure displayed with optional Portable Cache Module installed.

What you will need

- SCSI hard disk drives
- Intel® RAID Controller SRCU42E
- Server board with a x8 PCI Express® compatible slot
- Intel® RAID Controller SRCU42E Resource CD
- Intel® Portable Cache Module (optional) or one 128 Mbyte to 512 Mbyte 200 MHz DDR1 ECC PC2700 DDR333 memory DIMM, if not pre-installed
- One blank formatted diskette
- Operating System Installation Media: Microsoft® Windows® Server 2003 / Microsoft® Windows® 2000 Advanced Server, or Red Hat® Linux

Important Information

You can find the Hardware and Software Guides on the Resource CD that accompanied the Intel® RAID Controller SRCU42E.

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1 Make Installation Diskette

1. Insert the Resource CD.
2. Non-Windows® system only: open the linux.htm file at the root of the CD.
3. From the left menu of the welcome screen that opens, select the appropriate operating system. It is under the heading of "Software and Drivers."
4. Windows and NetWare® drivers:
 - Select the driver link
 - Open the driver zip executable to extract the driver files to a user-specified location, such as a floppy drive

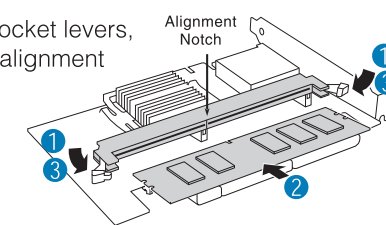
Linux or other operating system drivers:

- Select the driver link
- Save the compressed driver files to a user-specified location

5. Set this disk aside. It will be used in step 6, on the back side of this guide.

2 Install Intel® Portable Cache Module (optional) or Memory DIMM (if DIMM is not pre-installed)

1. Open the DIMM socket levers, noting location of alignment notch.



2. Insert the Intel® Portable Cache Module or the DIMM, making sure the cutout in the module lines up with the alignment notch.

3. Push the Intel® Portable Cache Module or DIMM firmly into the socket and make sure the socket levers are securely latched.

4. Intel® Portable Cache Module only: Attach the screw through the back of the RAID controller SRCU42E into the bracket on the Portable Cache Module.

3 Install the Intel® RAID Controller SRCU42E

1. Power down the system, disconnect power cord(s), and remove the system cover.
2. Install the Intel® RAID Controller SRCU42E into an available x8 PCI Express® slot.

Note: See your server board and 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 SRCU42E.

Refer to the "Intel® RAID Controller SRCU42E 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.

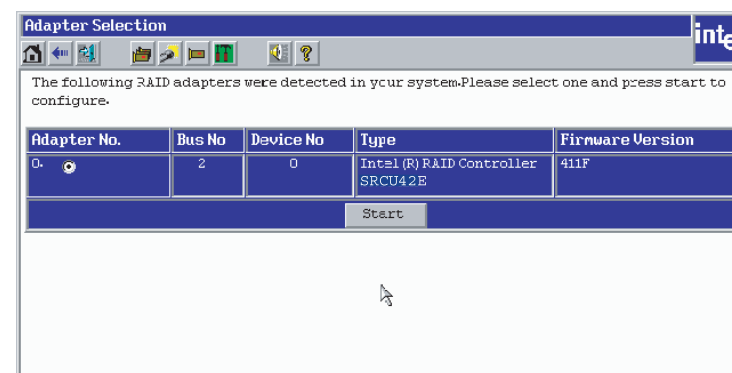
1. Power on the system and press <Ctrl> + <G> when the screen below appears.

```
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 TD-0 -- QUANTUM VIKING II 4.5WLS (40MB/s)
[ PCI 0/1 ] Channel-0 TD-4 -- IBM DCAS-34330W (20MB/s)
[ PCI 0/1 ] 1 Logical Drives found on the host controller.
1 logical drive(s) handled by BIOS.

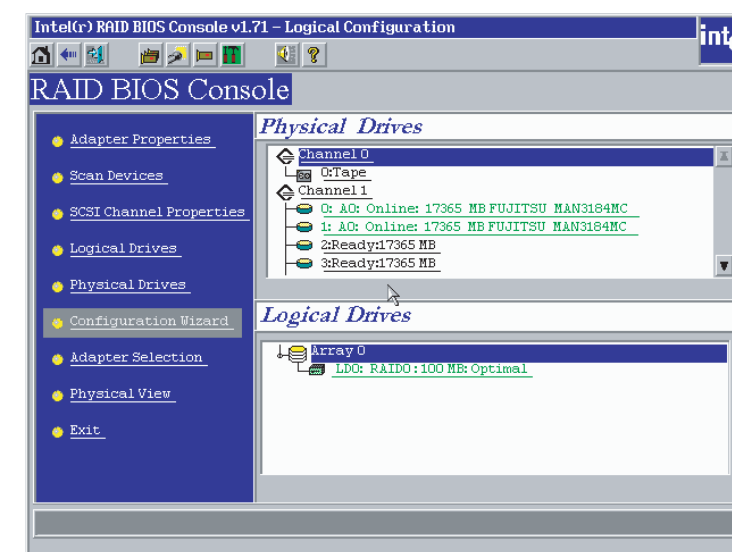
>>>>> Press <Ctrl><G> to enter the RAID Storage Console <<<<<<
RAID Configuration Utility will start after POST completes
Copyright (c) LSI Logic Corp. All rights reserved !
```

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 ..."

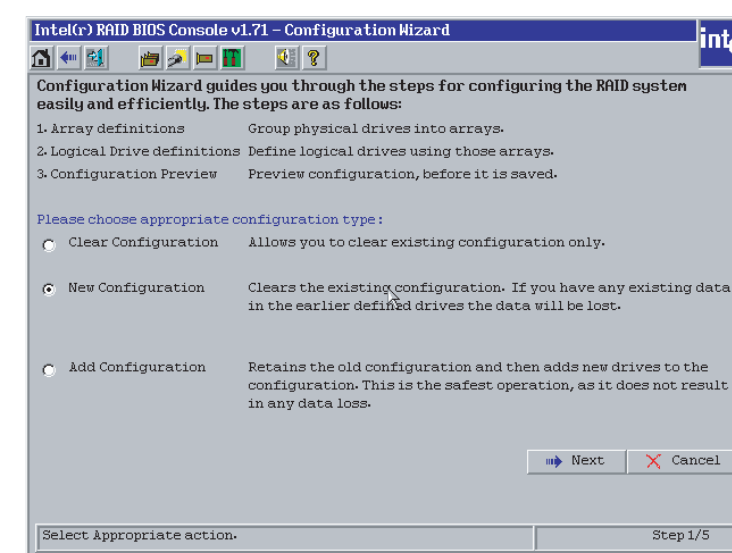
3. When Intel® RAID BIOS Console starts, it will display the Intel® RAID Controller SRCU42E installed in the system. Click on the "Adapter No." radio button, then click **Start**.



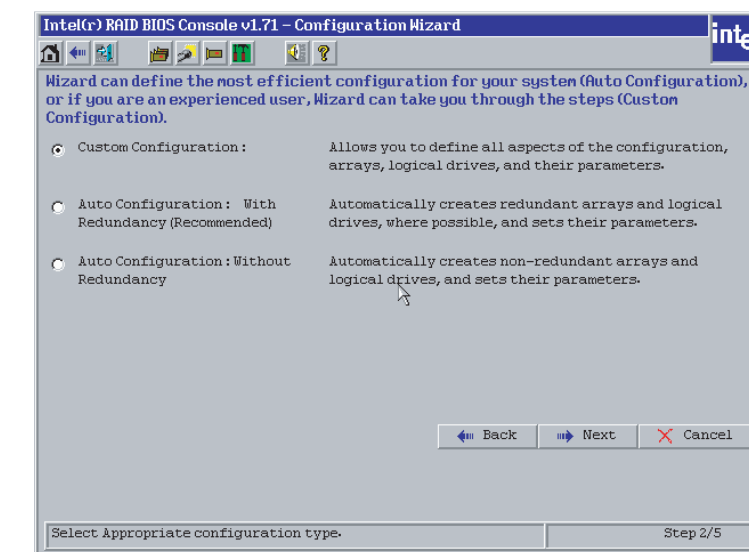
4. After a brief pause, the RAID BIOS Console screen will appear. Click on **Configuration Wizard**.



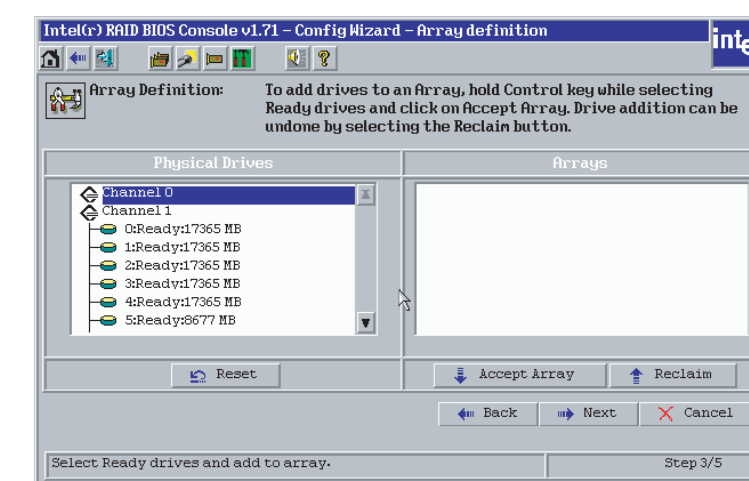
5. Select **New Configuration** and click **Next**.



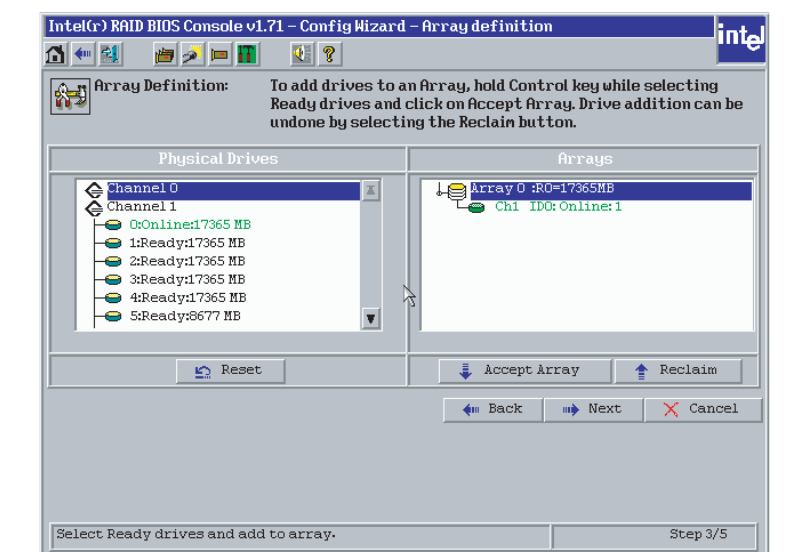
6. For this example, we used **Custom Configuration**. Click **Next**. (For further information, refer to the Software Guide on the Resource CD.)



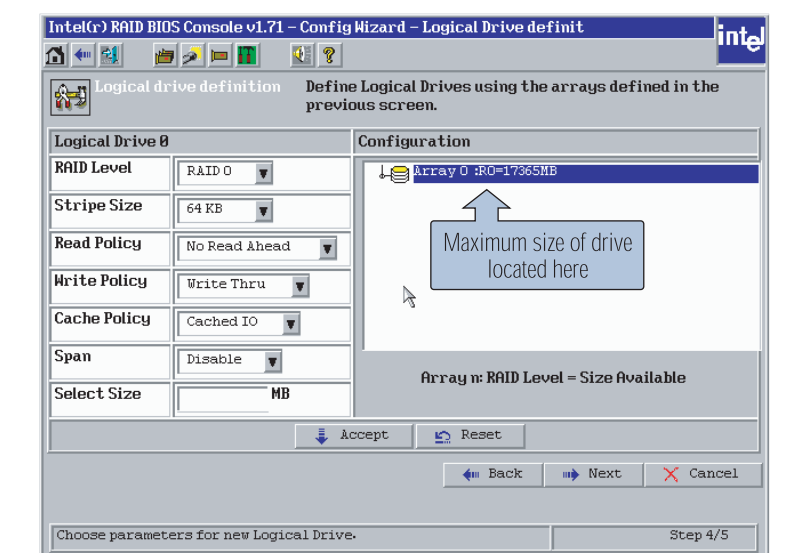
7. Add physical drives to the array by holding the control key while clicking on ready drives. Once you have selected all of the drives you wish to add to the array, click **Accept Array** and then click **Next**.



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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