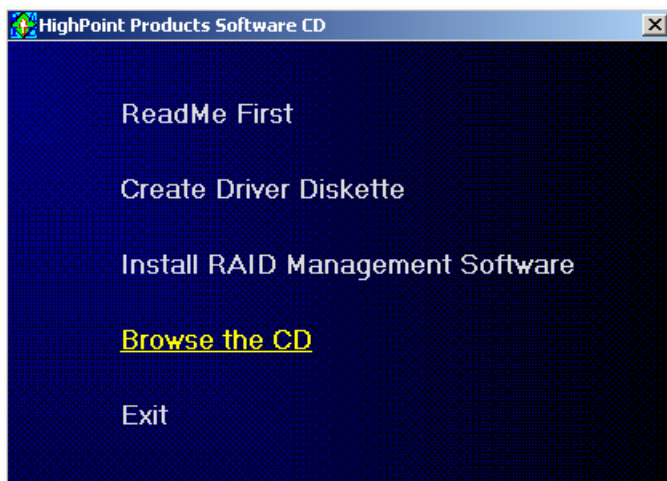


## Updating the BIOS

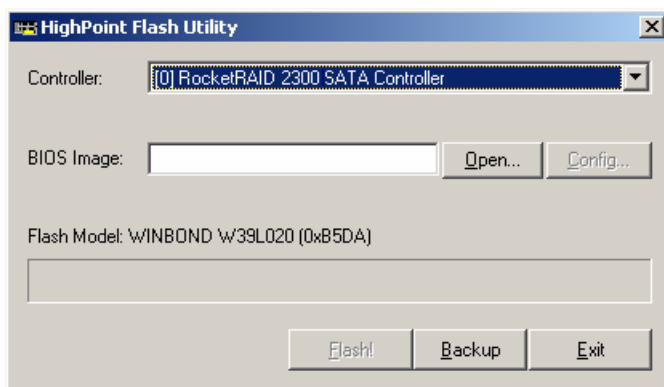
BIOS updates are released periodically, and posted on our website for download. There are several ways to flash the RR2300 BIOS.

### For Windows based operating systems:

- 1) Download the desired BIOS update from the Support section provided for the RR2300 host adapter. Extract the download to the directory of your choice.
- 2) Insert the Driver and Software CD included with the RR2300 retail box into the system's CD-ROM or DVD drive.
- 3) The CD should autorun, and display the following screen:



- 4) Select the "Browse the CD" option, and access the directory provided for the RR2300 host adapter.
- 5) Open the "BIOS" directory, and double click the "hptflash.exe" icon. This will start the BIOS flash utility:



- 6) Select the RR232 from the drop down menu labeled "Controller", and press the "Open" button – this will allow you to browse to the extracted BIOS download (step 1).
- 7) Highlight the image file, and click the "Flash!" button. The utility will update the card, then verify the update.
- 8) Once complete, click on the "Exit" button to close the utility. Shutdown and reboot the system.

*Note: the "Backup" button will save a copy of the card's current BIOS to the directory of your choice.*

**For other operating systems:**

**In order to update the BIOS, the system must be booted into DOS mode, using a DOS-boot diskette or CD image.**

- 1) Copy the load.exe and the bios image file to the bootable floppy diskette (you may need to use a different floppy depending upon how much space is available on the boot diskette - this can vary).
- 2) If you are booting from a CD image, you will need to add these files to the CD.

Insert the boot image media into the appropriate drive, and boot the system.

- 3) Once the A:\> prompt has appeared, insert the media that contains the required BIOS files, and type the following command:

load xxx.xxx

Then, press enter.

*Note: xxx.xxx = the name of the BIOS image file (type it exactly as it appears).*

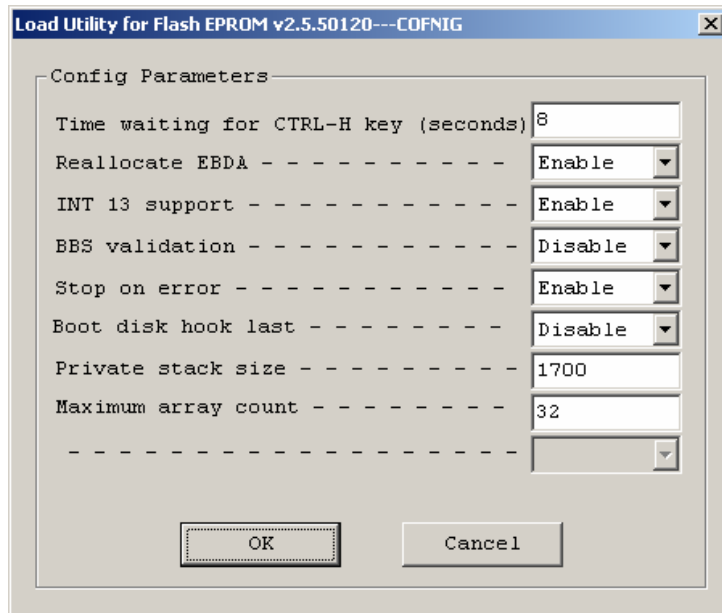
- 4) The utility will scan for the controller, and ask if you want to backup the BIOS (save a copy of the current BIOS to a floppy diskette). This is optional - you can answer No, and continue.  
*Note: This option will not function if the system was booted from CD.*
- 5) The utility will then ask if you want to flash the controller (upgrade the BIOS). Select Y for yes.
- 6) The utility will display a progress bar during the flash procedure, then will attempt verify the update.
- 7) Once complete, the system can be rebooted.

## BIOS – Additional Settings

The RR2300 BIOS utility has several other configurable settings that can be accessed when flashing the BIOS.

### Using the hptflash.exe utility (from within a Windows operating system):

Click on the “Configure” button from the main interface window.  
The following window will appear:



Use the drop down menus to enable or disable controller functions.

### Using the DOS mode utility (load.exe):

*Load xxx.xxx -c*

*Note: “xxx.xxx” refers to the BIOS image file.*

A BIOS menu similar to the BIOS setup utility will be displayed.  
This sub-menu allows the administrator to enable/disable various controller functions.

### Several of the more common functions are described below:

**Keyboard Timeout (diag.exe) / Stop on Error (hptflash.exe)** – disabling this option will prompt the card to automatically skip error messages during bootup (broken array warnings), if the administrator does not input the “Control + H” command to access the BIOS menu.

**EBDA Reallocation** – this function refers to “Extended BIOS Data Area”.  
Disabling this feature may remedy boot problems associated with motherboards that halt after the RR2300 BIOS screen is displayed.

**INT13** – The card's boot function. Disabling this feature removes the card's ability to boot the system. This may be useful for systems that utilize multiple bootable controllers – some motherboards may not be able to load the BIOS of each device during bootup, which may impair the system's ability to boot from a specific device.

**Control-H** – Allows the administrator to adjust the time allotted for hard disk scanning/detection. This may be useful for hard disks that do not support Staggered Drive Spinup.