Flash Magic User's Guide

For the first time user to upgrade ARAID 2200 HIC 2103 firmware

(1)Install "Flash Magic" into your PC first and then execute "Flash Magic", see picture 1.



(picture 1)

(2) Flash Magic "Version" shows up on picture 2. The current Version is 3.23.120.



(picture 2)

(3) "Flash Magic window" shows up as picture 3.

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<u>File ISP Options Tools Help</u>	
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Step 1 - Communications	Step 2 - Erase
COM Port: COM 1	Erase block 0 (0x0000-0x0FFF)
Baud Rate: 9600 💌	Erase block ((ux1000-0x1FFF)
Device: 89C51RA2xx 👻	
Interface: None (ISP)	Erase all Elasha Securitua Ciko
Oscillator Freq. (MHz): 16.000000	Erase blocks used by Hex File
Step 3 - Hex File	
Hex File:	Browse
Modified: Unknown	more info
Step 4 - Options	Step 5 - Startl
🔽 Verify after programming 🔲 Set Security Bit 1	1 Start
🔲 Fill unused Flash 👘 🔲 Set Security Bit 3	2
Gen block checksums Cet Security Bit .	3
Rotating, fully customizable, remotely updated Inte application!	ernet links. Embed them in your
	(picture 3)

(4) Choose a proper COM port on your PC, such as COM1.

Choose **38400** of the "**Baud Rate**" menu to communicate with ARAID 2200, see picture 4.

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Step 1 - Communications	Step 2 - Erase
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Interface: None (ISP)	
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Uscillator (red. (M112). [10.000000	Erase blocks used by Hex File
	Browse
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Step 4 - Options	Step 5 - Start!
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📄 Fill unused Flash 👘 📄 Set Securi 🔽 Gen block obsokeums 👘 Set Securi	y Bit 2
Execute Prog Clock	s Bit
Rotating, fully customizable, remotely update application! www.embeddedhints.com	ed Internet links. Embed them in your
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	(Dicture 4)

(5) In "Device", select from 89C51RA2xx to LPC2103 this device, see picture 5.

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Step 1 - Communications	Step 2 - Erase
COM Port: COM 1	Erase block 0 (0x0000-0x0FFF)
Baud Rate: 38400 💌	Erase block 2 (0x2000-0x2FFF)
Device: LPC2103 👻	Erase block 3 (0x3000-0x3FFF) Erase block 4 (0x4000-0x4FFF)
Interface: None (ISP) 👻	Erase block 5 (0x5000-0x5FFF)
Oscillator Freq. (MHz): 16.000000	Erase all Flash+Lode Rd Prot Erase blocks used by Hex File
Step 3 - Hex File	
Hex File:	Browse
Modified: Unknown	more info
Step 4 - Options	Sten 5 - Startl
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Fill unused Flash	Start
Gen block checksums	
L'Execute	
Technical on-line articles about 8051 and XA prog	ramming
www.esacademy.com/fag/docs	
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(6) Please click "Read Device Signature" under ISP, see picture 6.



(picture 6)

(7) In "Device Signature" window, if a value is shown in the "Device ID" box, such as 0x327441, which means Flash Magic has detected LPC2103, see as picture 7.
(Note: If there is no number comes up in the Device ID box, please verify the "Interface" is "None[ISP]" and keyin "12" in the "Oscilator Freq. [MHz]" box.)

evice Signature	<u> </u>	3
Manufacturer ID: 0x		
Device ID. 1: 0x	_	
Device ID 2: 0x		
Device ID: 0x	327441	D
Bootloader Ver:	2.2	
	Close	T
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(8) Please check the "Erase all Flash+Code Rd Prot" box as marked. And then click Browse to choose a file for update, see picture 8.

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Step 1 - Communications	Step 2 - Erase
COM Port: COM 1	Erase block 0 (0x0000-0x0FFF)
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Device: LPC2103 🗨	Erase block 3 (0x3000-0x3FFF) Erase block 4 (0x4000-0x4FFF)
Interface: None (ISP) 🗨	Erase block 5 (0x5000-0x5FFF)
Oscillator Freq. (MHz): 16.000000	Erase blocks used by Hex File
Step 3 - Hex File	
Hex File:	Browse
Modified: Unknown	more info
Step 4 - Options	Step 5 - Start!
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On-Line training classes for microcontrollers and en Internetworking <u>www.esacademy.com/fag/classes</u>	nbedded networking and

(9) Search the file name as "20070811-2-57443.hex" and select it, see picture 9.



(10) Click "Start" and the upgrading process will begin, see picture 10.

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Step 3 - Hex File Hex File: [C:\Users\user\Desktop\200 Modified: 星期一, 八月 13, 2 Step 4 - Options	70811-2-57443.hex Browse 007, 上午 11:31:00 <u>more info</u> Step 5 - Start!
Verify after programming Set Co Fill unused Flash Gen block checksums Execute	de Read Prot
On-Line training classes for microcontro Internetworking www.esacademy.com/fag/classes	llers and embedded networking and

(11) The upgrading process is shows on the bottom of Flash Magic window, see picture 11.

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<u>File ISP Options Tools H</u> elp		
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Step 1 - Communications	Step 2 - Erase	
COM Port: COM 1	Erase block 0 (0x0000-0x0FFF)	
Baud Rate: 38400 👻	Erase block 2 (0x2000-0x2FFF)	
Device: LPC2103 🔍	Erase block 3 (0x3000-0x3FFF) Erase block 4 (0x4000-0x4FFF)	
Interface: None (ISP) 🚽	Erase block 5 (0x5000-0x5FFF)	
Oscillator Freq. (MHz): 16.000000	Erase blocks used by Hex File	
Step 3 - Hex File Hex File: C:\Users\user\Desktop\20070811-2-5 Modified:星期一,八月 13, 2007,上午 Step 4 - Options └ Verify after programming Set Code Read I Fill unused Flash Gen block checksums Execute	S7443.hex Browse 11:31:00 more info Step 5 - Start! Prot Cancel	
Visit the "Flash Magic" home page for info on the www.esacademy.com/software/flashmagic	latest revision	
Programming device (0x0400)	0	(picture 11)

(12) When the upgrading process finished, it will show "finished" on the bottom line, see picture 12. Then you are done.

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Step 1 - Communications	Step 2 - Erase
COM Port: COM 1 Baud Rate: 38400 Device: LPC2103 Interface: None (ISP) Oscillator Freq. (MHz): 16.000000	Erase block 0 (0x0000-0x0FFF) Erase block 1 (0x1000-0x1FFF) Erase block 2 (0x2000-0x2FFF) Erase block 3 (0x3000-0x3FFF) Erase block 4 (0x4000-0x4FFF) Erase block 5 (0x5000-0x5FFF) Erase block 5 (0x5000-0x5FFF) Erase block 5 used by Hex File
Step 3 - Hex File Hex File:	-57443.hex Browse F 11:31:00 more info
Step 4 - Options Verify after programming Set Code Read Fill unused Flash Gen block checksums Execute	I Prot Start
Visit the "Flash Magic" home page for info on the www.esacademy.com/software/flashmagic	e latest revision
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