

Flashing VS10xx Evaluation KIT V2.5 in Windows

- 1. Install Atmel FLIP software (http://www.atmel.com/dyn/products/tools card.asp?tool id=2767)
- 2. Connect evaluation kit to COM1 using straight serial cable.
- We recommend using a table-top $\ensuremath{\mathsf{PC}}$ with integrated serial port
- USB serial ports can be problematic
- 3. Remove jumper JP3 and switch evakit power on
- The screen should be blank or have 8 or 16 dark blocks only
- 4. Start FLIP

🖉 Atmel - Flip 2.4.4		
<u>File Buffer Device Settings Hel</u>	lp	
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Operations Flow	Buffer Information	
F Erase	Size: 64 Kbytes Blank: FF Range: 0000 - FFFF Checksum: Offset: 0000 Reset Before Loading	
Program	HEX File: none	
Verify	No device selected	
Run Clear		

Hit F2 to select device: AT89C51RD2



2nd of May 2005

AT89C51ED2	-
AT89C51ID2	
AT89C51RB2	
AT89C51RC2	1000
AT89C51RD2	
AT89C51SND1	
AT89C51SND2	
18905115	_
10463121	
T89C51CC01	-

Hit F3 to select Communication Parameters: COM1 / 115200bps and hit "Connect"

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COM1	
115200	
Manual 9	Gync
-	1
	COM1 115200

If there is a problem with connecting to board, you get an error message:



If the connection is OK, you get a screen with the AT89C51RD2 parameters visible:





Set parameters as in the above picture.

It is now recommended to create a backup of the original contents of the microcontroller flash. Select Device => Read => Read to read the device Select File => Save buffer as... to save the original flash contents to a file e.g. "original.hex"

Then hit F4 to load a Hex file.

- Select Files of type: All files

- Navigate to the directory where you have extracted new player code images you have received / downloaded from VLSI

- Select vs1003.ihx if your board has VS1003 codec, use player.ihx if it has VS1011 or VS1002 codec.



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Select HEX	File			? 1	×
Look in: 🔂) bin	<u>ا ا</u>			1. 1.4
 flip.cfg player.cfg player.ihx vs1003.cf vs1003.ih 	9				- 20
File <u>n</u> ame: Files of <u>type</u> :	vs1003.ihx All Files (*.*)		•	<u>O</u> pen Cancel	

Hit "Open".

🦸 Atmel - Flip 2.4.4		
<u>File Buffer Device Settings Help</u>		
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Operations Flow	Buffer Information	AT89C51RD2
I Erase I Blank Check	Size: 64 Kbytes Blank: FF Range: 0000 - 5667 Checksum: 20D886 Offset: 0000 Reset Before Loading	Signature Bytes: 58D.7ECEF Device Boot Ids 0000 Hardware Byte 78 Bootloader Ver. 1.0.0
Program	HEX File: vs1003.ihx 21.6 Kbutes	BSB / EB / SBV FF FF FC
Verify	<u>AIMEL</u>	Device SSB FF C Level 0 C Level 1
Run Clear Performs selected operations		C Level 2
HEX file vs1003.ihx loading don		



Click the "Run" button in Flip....

The new code is now programming...



If the programming is OK, you get a "Memory verify pass" message:







If you get an error message, try again.

If you have problems with communication, try selecting a lower bitrate. You need to reset the evaplayer and reconnect for the new bitrate to take effect.

When the programming is Ok, click "Start Application" to see if the new code is working.

- 5. Replace jumper JP3 and reset the evakit
- 6. Enjoy the new software