



micropendous

Open Hardware Development Boards for USB AVR Microcontrollers

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LoadingFirmwareWithFLIP

Instructions for Loading Firmware and EEPROM using Atmel's FLIP

Phase-Deploy

Updated Oct 8, 2010 by [opend...@gmail.com](#)

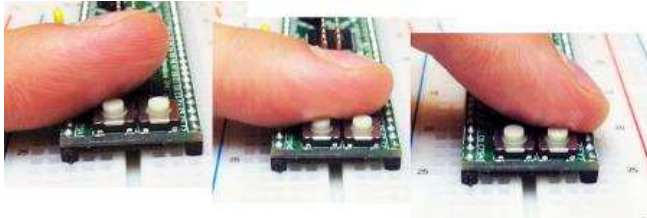
For more complete instructions please see the [QuickStart](#) guide or the [ProgramAndTest](#) wiki pages.

Atmel has a similar [FLIP Usage Tutorial](#) for firmware uploading.

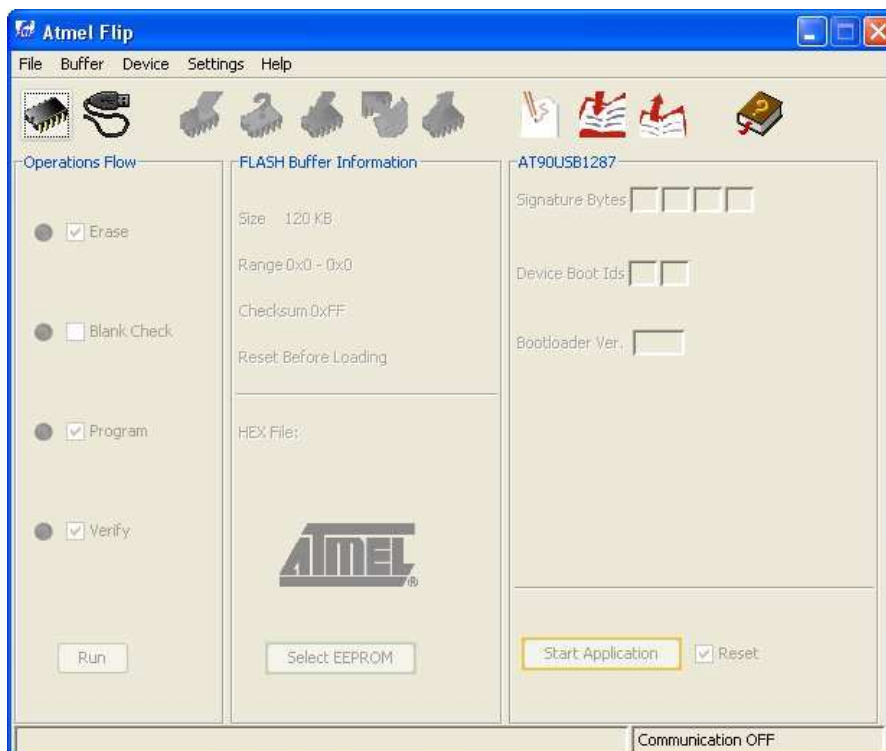
Loading Firmware

This Tutorial assumes you have already compiled your firmware by following the instructions in [ProgramAndTestWindows](#).

1. Plug in your Micropendous board and enter the bootloader. Press the RESET and HWB buttons, then release the RESET button, then release the HWB button. If Windows' Driver Installation begins, refer to [ProgramAndTestWindows](#).



2. Start Atmel FLIP



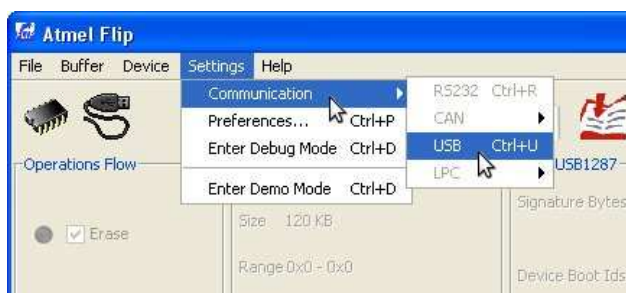
3. Under the *Device* menu, select *Select*.



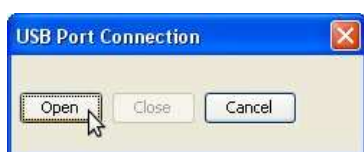
4. Choose your Micropendous board's corresponding MCU. The picture below assumes a [Micropendous4](#) with an [AT90USB1287](#) MCU will be programmed.



5. Under the *Communication* menu, select *USB*.



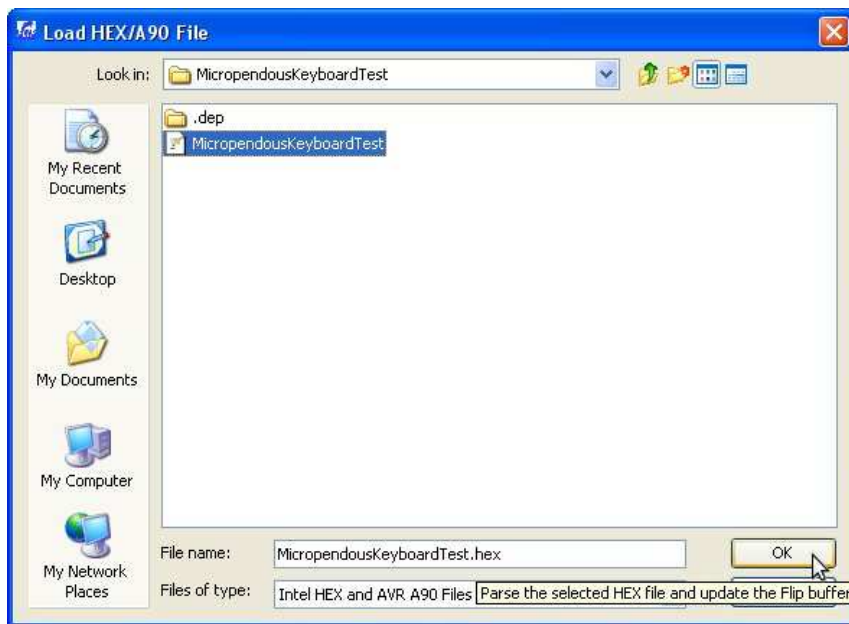
6. Click *Open* to establish communication with your board.



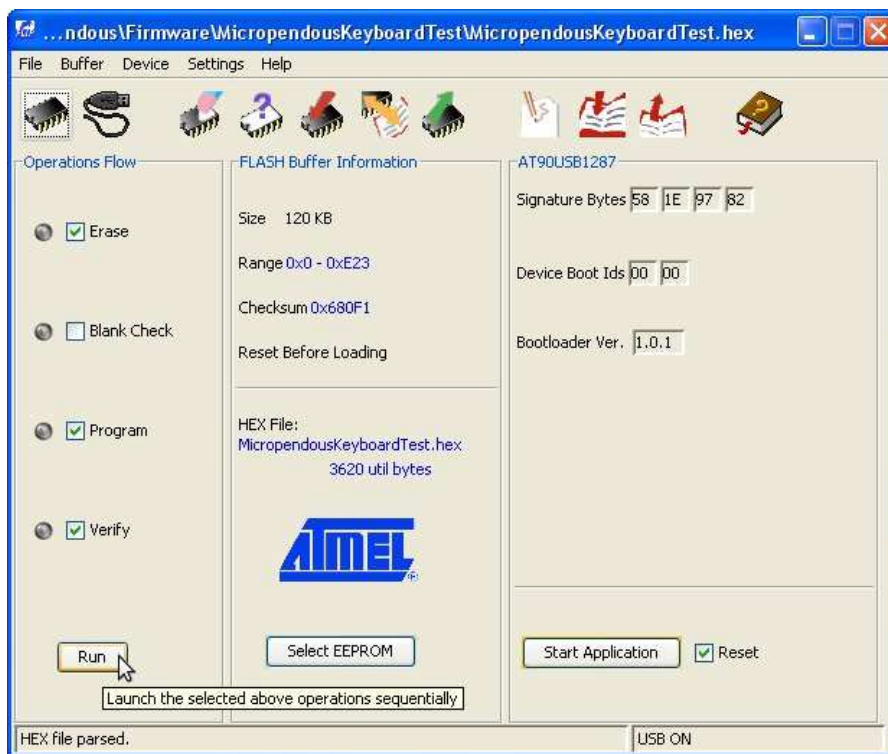
7. From the *File* menu select *Load HEX File...*



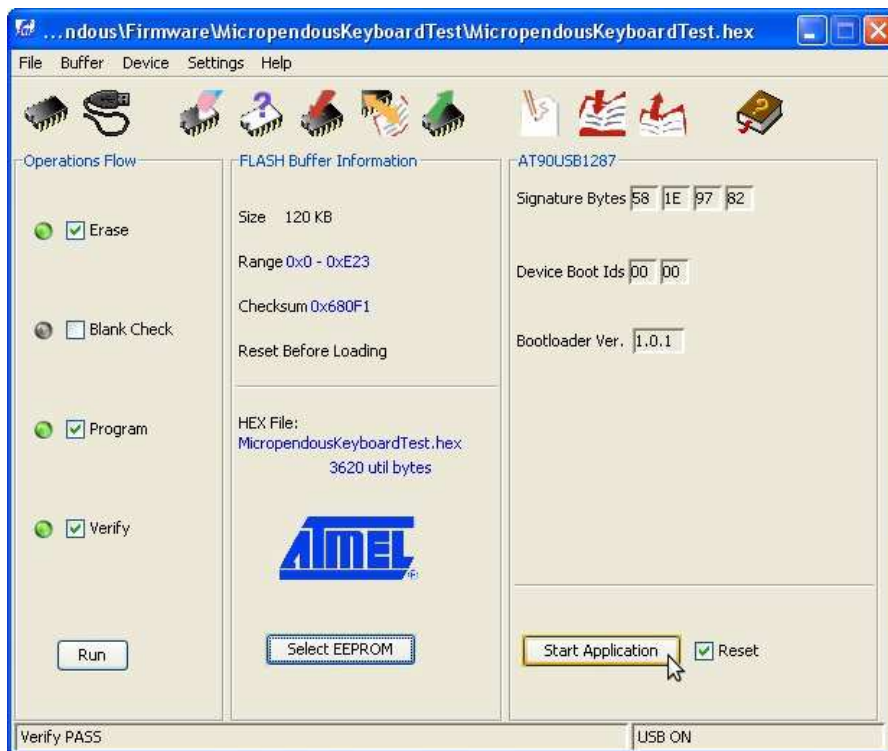
8. Find and Open the firmware file you want to upload



9. Select the *Erase*, *Program*, and *Verify* options and click Run



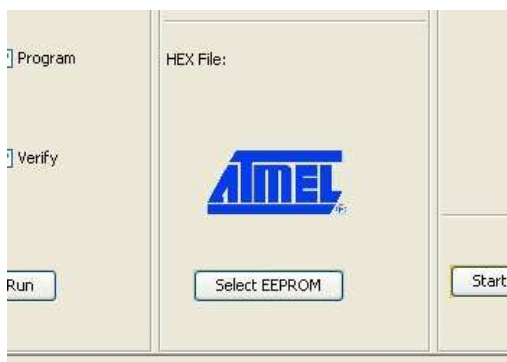
10. If successful all the tasks should have a green dot next to them. You can now click *Start Application* to start running the new firmware on your board



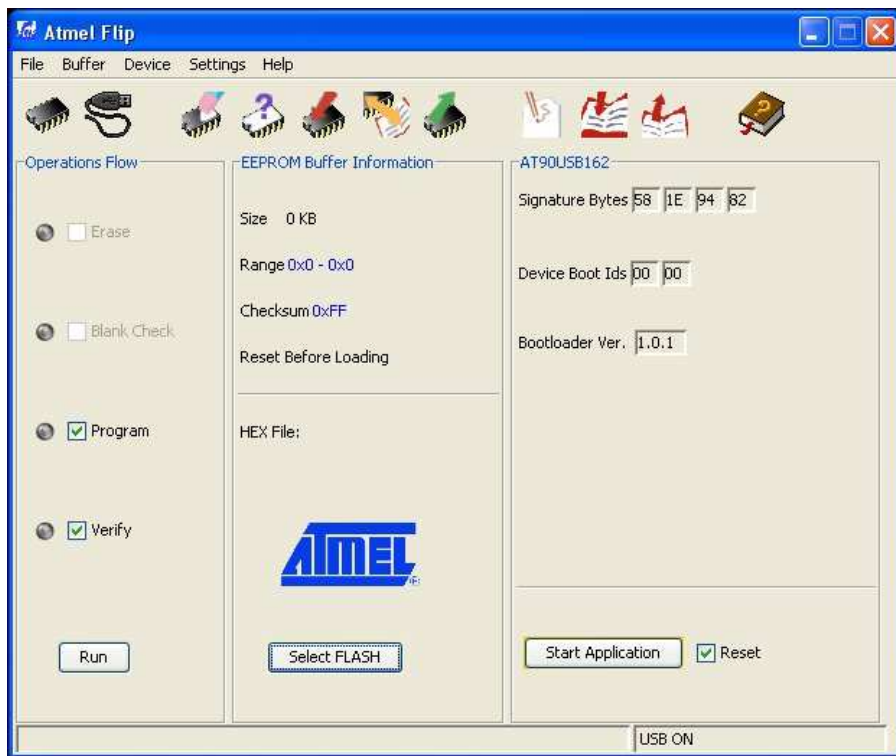
Loading EEPROM

The EEPROM of a Micropendous board can similarly be programmed. The following assumes you have already entered the bootloader, selected your target device, and opened USB communication as explained above.

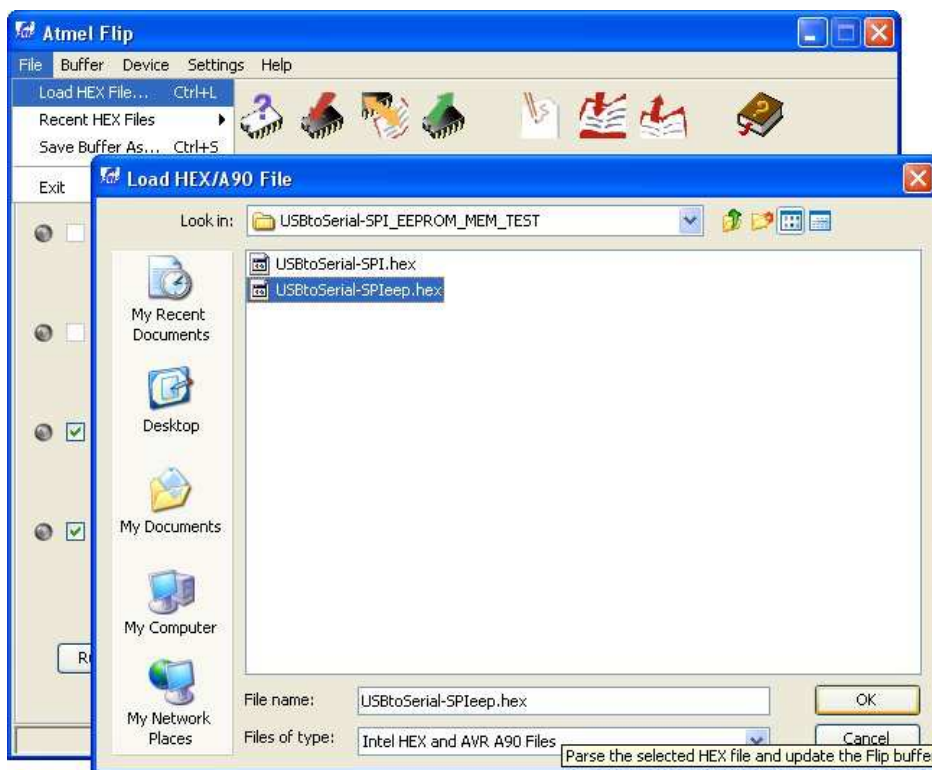
1. Click the *Select EEPROM* button to switch to EEPROM mode



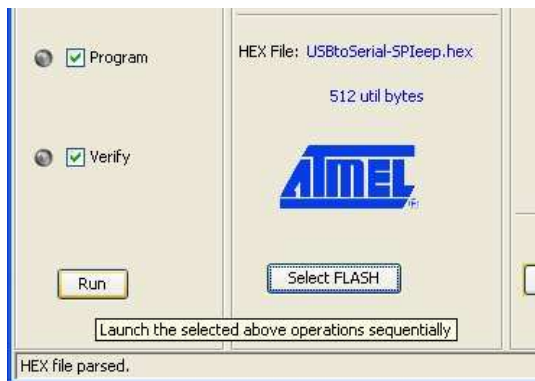
2. Choose the *Program* and *Verify* options



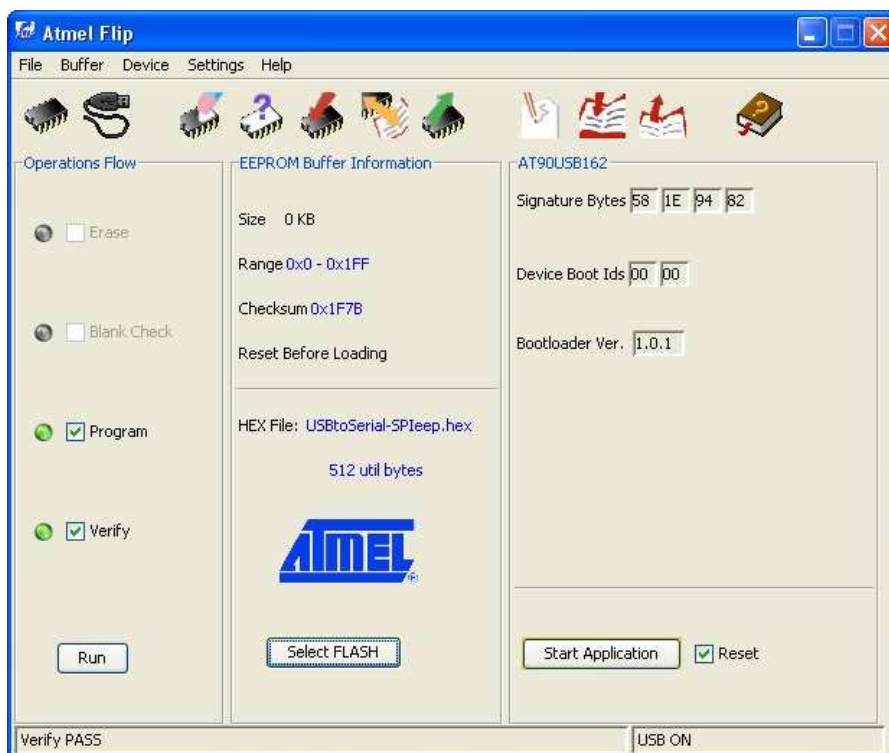
3. Find and load your EEPROM .hex file



4. Click *Run* to upload to EEPROM



5. If successful all the tasks should have a green dot next to them. You can now click *Start Application* to start running the new firmware on your board



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