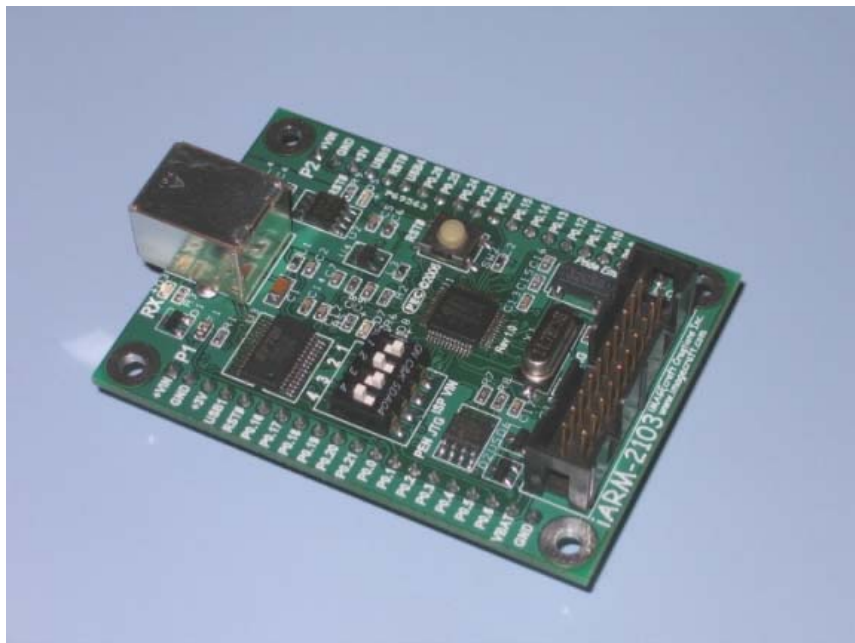




iARM-2103 In System Programming (ISP) Instructions



Purpose:

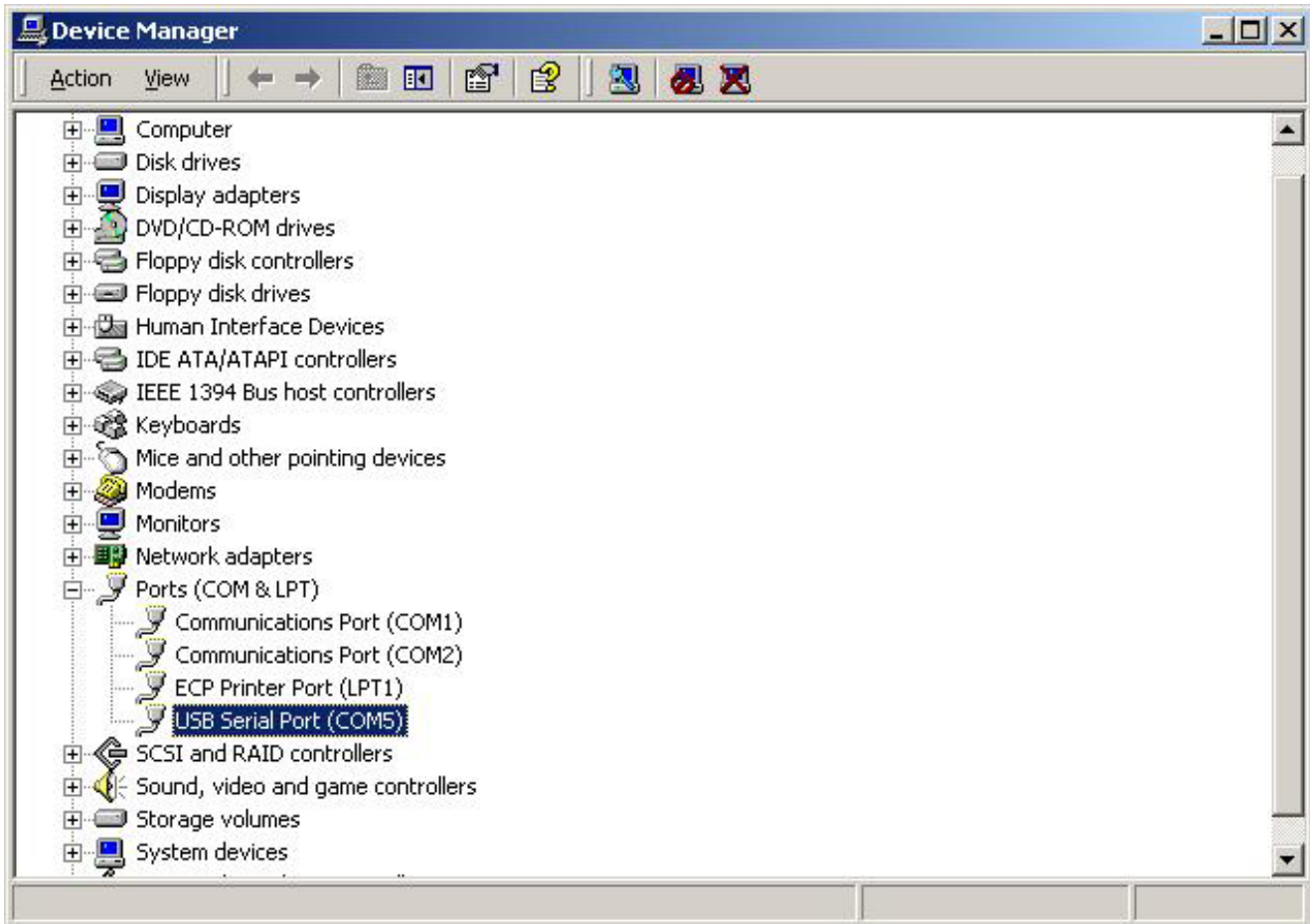
Instructions for in system programming the ImageCraft iARM-2103 over USB

Required tools:

- Computer with Philips LPC2000 Flash Utility V2.2.3 or greater installed
- FTDI USB driver for PC: <http://www.ftdichip.com/Drivers/VCP.htm>
- USB Type-A to Type-B cable

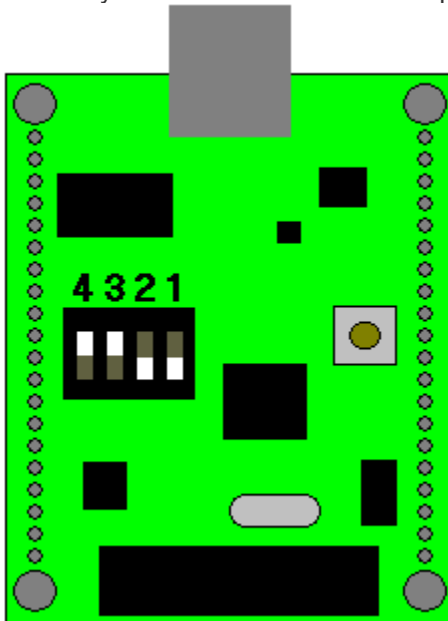
USB COM port settings:

- When plugged into the USB port, the iARM-2103 must have a COM port assignment of COM5 or less. The Philips ISP app does not support COM port assignments above COM5. This can be configured in the FTDI driver under the ports section if using MS Windows:

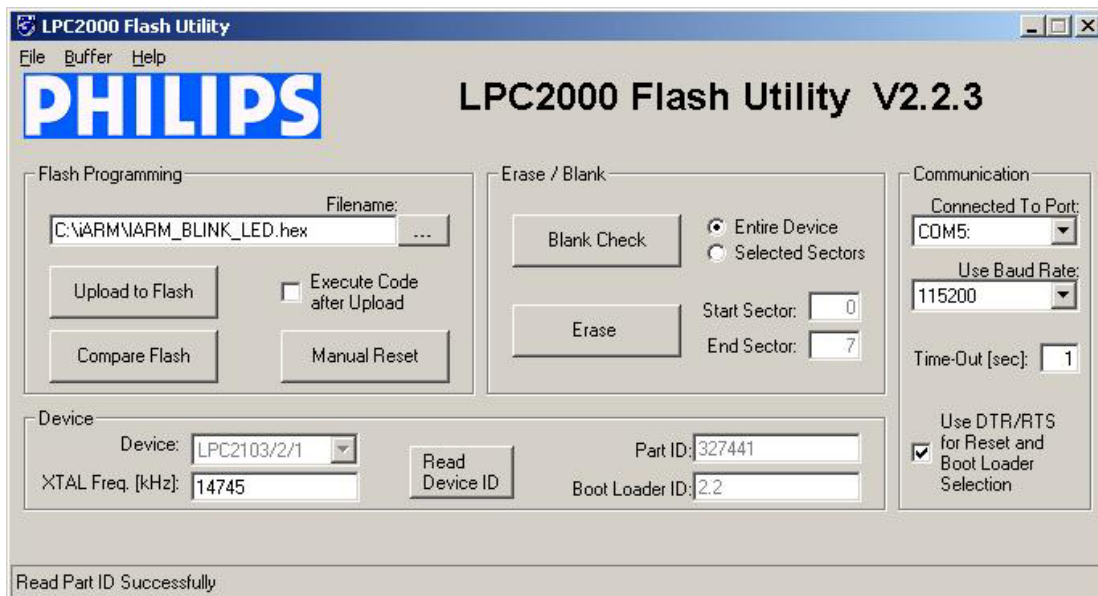


ISP Instructions:

1. Verify the iARM-2103 DIP switch positions 1 and 2 are in the ON/down position as shown:

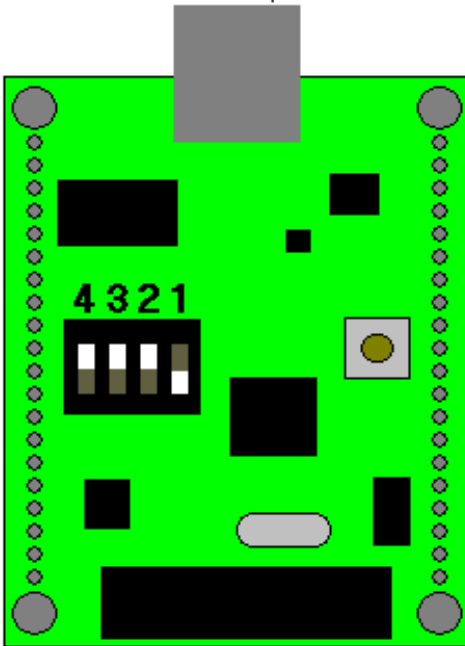


2. Plug the USB cable into the computer and then into the iARM-2103.
3. Press the iARM-2103 Reset button.
4. If this is the first time using the iARM-2103, browse to the directory where the FTDI USB driver is stored and select it. Verify the iARM-2103 is ready to use.
5. Launch the Philips LPC2000 Flash utility V2.2.3 (or greater).
6. Enter in the following settings for XTAL Freq and Baud rate; the COM port setting is determined by the FTDI USB driver and can be located as discussed above:



7. Select a flash programming file.
8. Press the “Read Device ID” button and verify the part ID is successfully read (message on bottom of window) and that the LPC2103/2/1 device has been automatically selected in the Device window.
9. Press the “Upload to Flash” button.
10. Verify file loaded successfully (message on bottom of window), and then exit the Flash Utility program.

11. Switch DIP switch position 2 in the OFF/up position:



12. Press and then release the Reset button.
13. Flash upload complete.