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Procedure for Cath-Tech Product

Title: Hexcorder Pro Firmware Update
Product: Hexcorder Pro
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Document Revision: C

Hexcorder Pro Firmware update

Outline:

This procedure outlines the process to update the Hexcorder Pro firmware without special tools. This will allow the customer to update the firmware themselves without having to send the equipment to Cath-Tech.

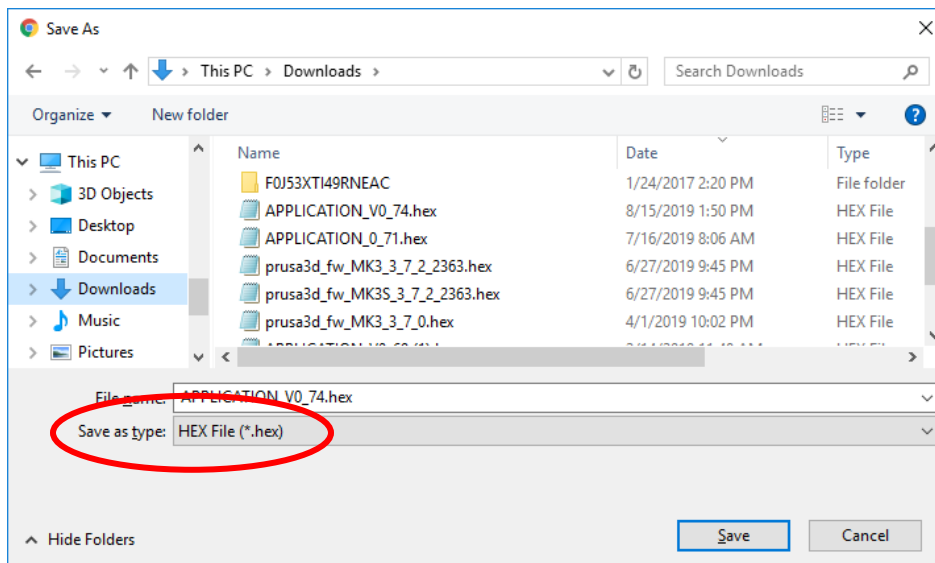
Setup:

Items required:

1. Hexcorder Pro
2. Windows based PC with USB port
3. Mini USB to USB cable (provided with Hexcorder Pro)
4. Atmel FLIP software (with Java Runtime Environment included)
5. USB driver files
6. New firmware HEX file

Procedure:

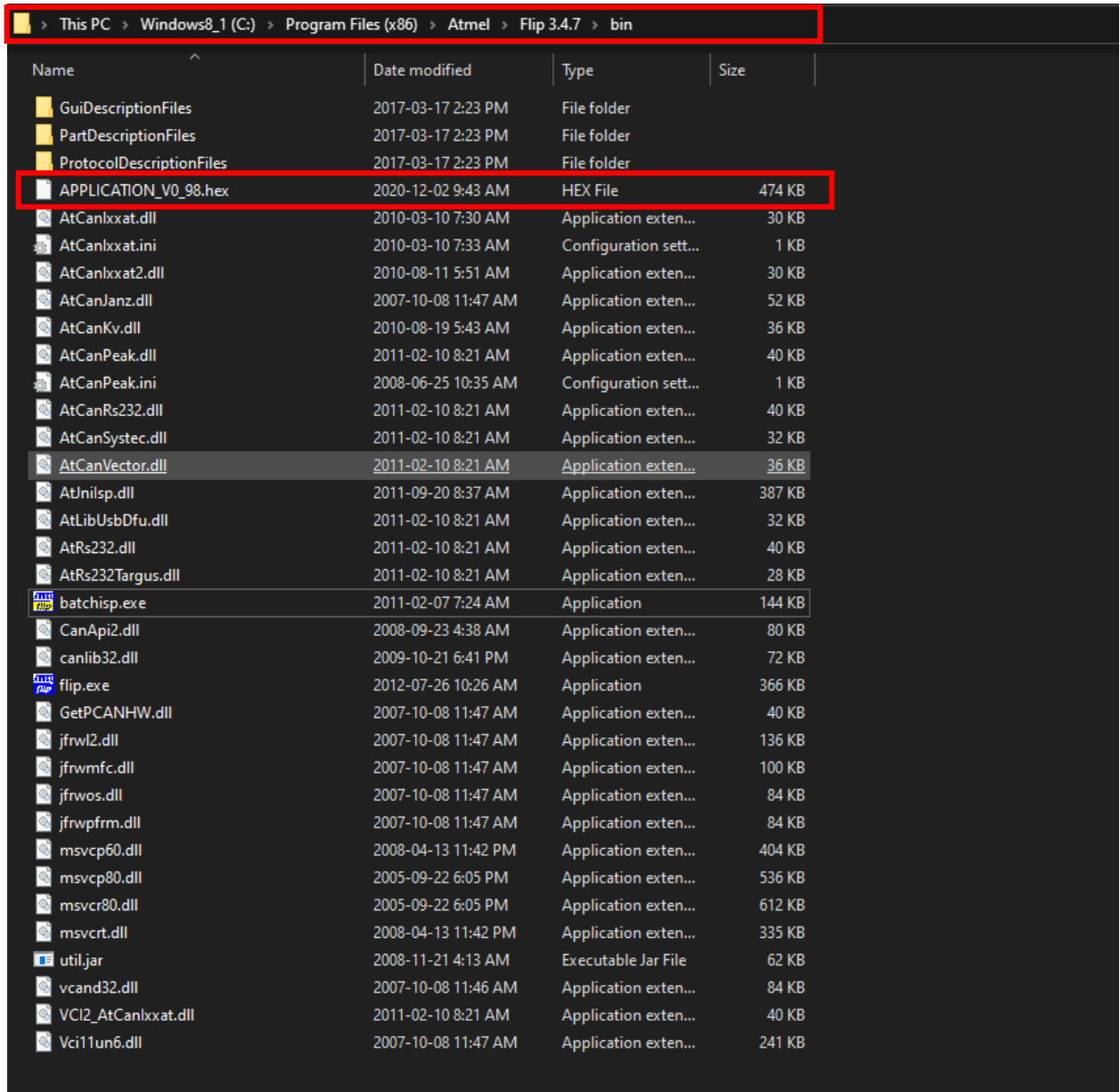
1. Go to <http://cath-tech.com/firmware-updates/> and download the Atmel FLIP installer .exe from the provided link.
2. Download the firmware file by right clicking the link and selecting "Save link as". Save it as the default file type HEX file (*.hex).



3. Install ATMEL FLIP 3.4.7 to your PC from the provided .exe file, following the instructions in the installer. It will prompt you to install Java Runtime Environment if you do not have it installed already.

4. **NOTE: This step is critical and needs to be followed exactly.**

Move the HEX file (*.HEX) to the same folder that Atmel Flip 3.4.7 is installed in. This is usually "C:\Program Files (x86)\Atmel\Flip 3.4.7\bin".



5. Connect the Hexcorder Pro USB cable from the PC to the Hexcorder Pro



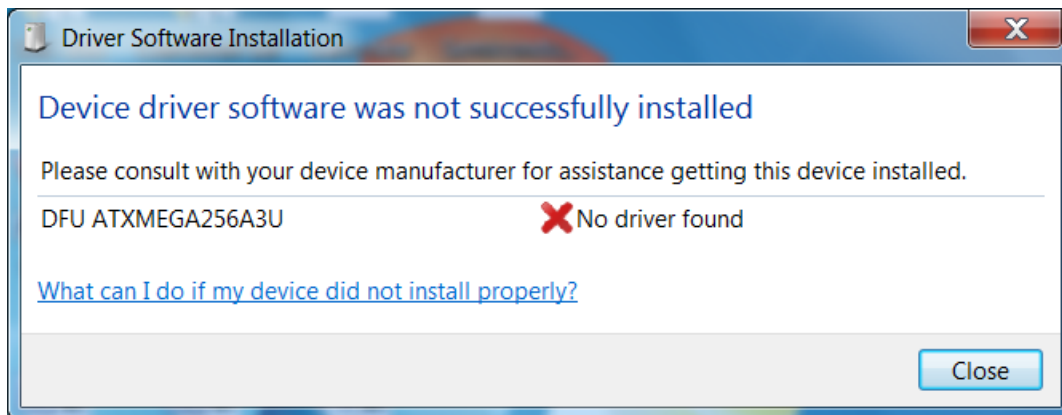
6. With the Hexcorder turned off, press and hold the purple and orange buttons, then press the power button. Release the buttons.



7. The GPS LED will be solid amber when the unit is ready to program.

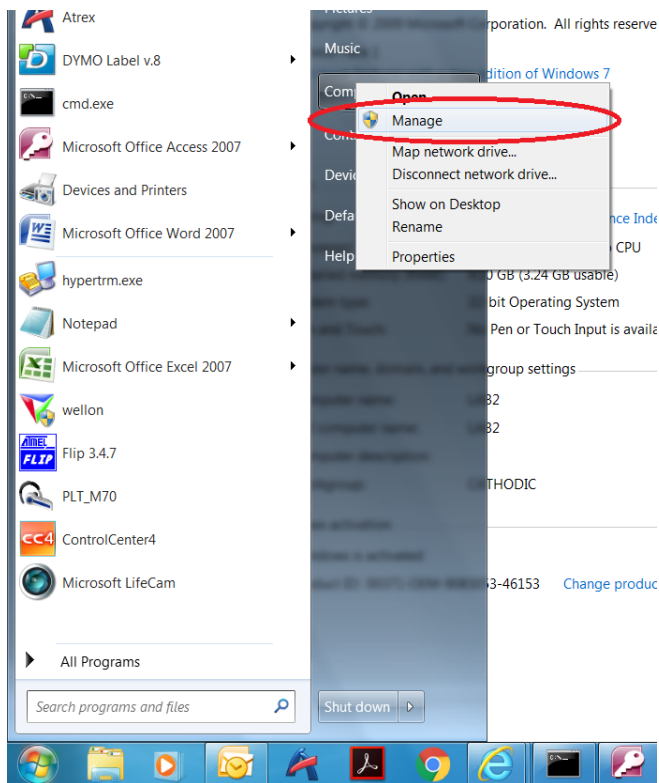


8. The device will be detected and windows will attempt to load the drivers from the internet. If you are on Windows 10 it will likely find them, but if you are on Windows 8 or 7 it may not. If drivers are found, skip to **Step 17**.

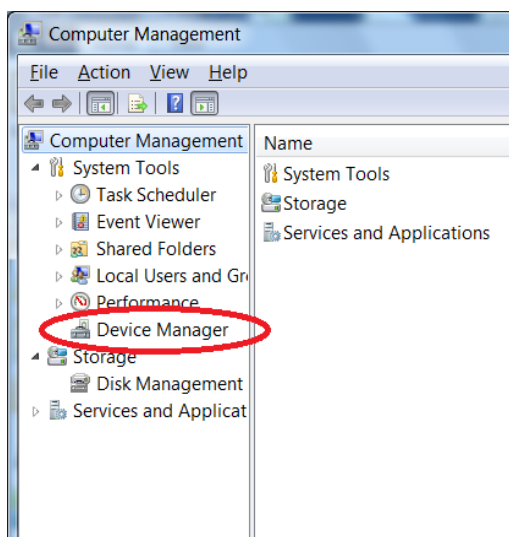


9. If the drivers are not found, they are available in a ZIP file from <http://cath-tech.com/firmware-updates/>. Extract the ZIP file to your Downloads folder.

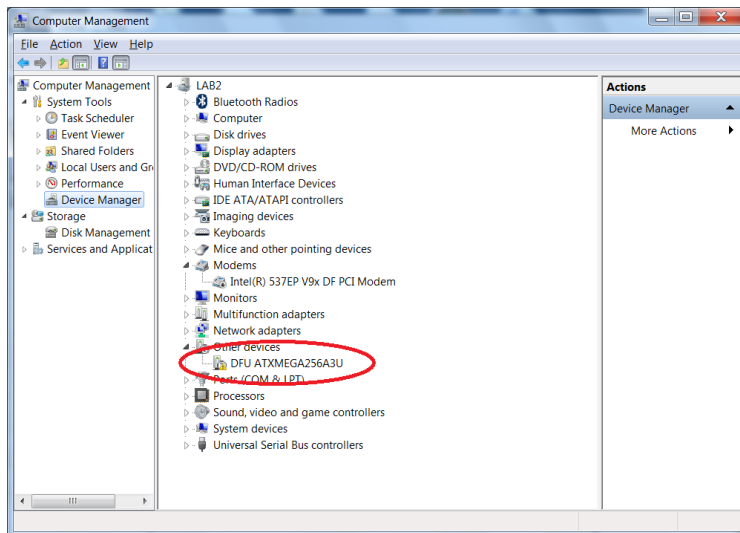
10. To install the driver, click the start menu, right click “Computer” (windows 7) or “This PC” (Windows 10) and select “Manage”



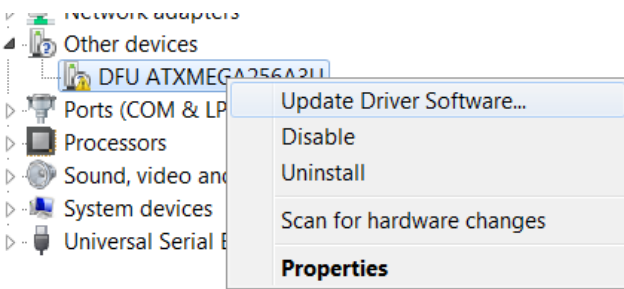
11. Select the “Device Manager” option on the left side list



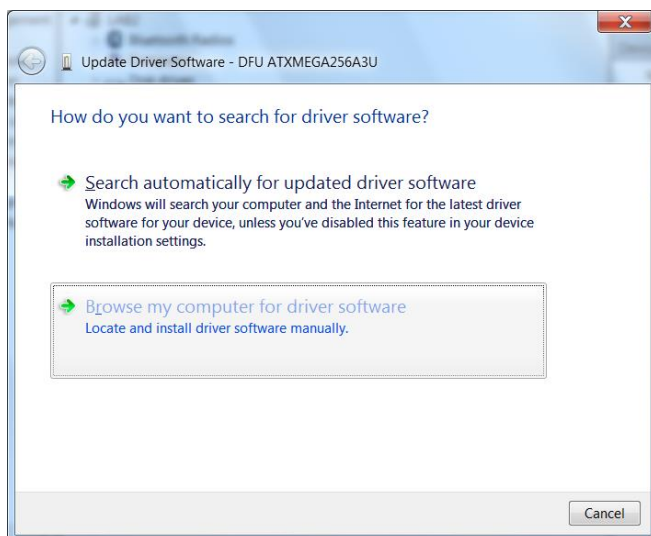
12. Locate the item DFU ATXMEGA256A3U, usually under “Other Devices” and indicated with a yellow symbol as having an issue



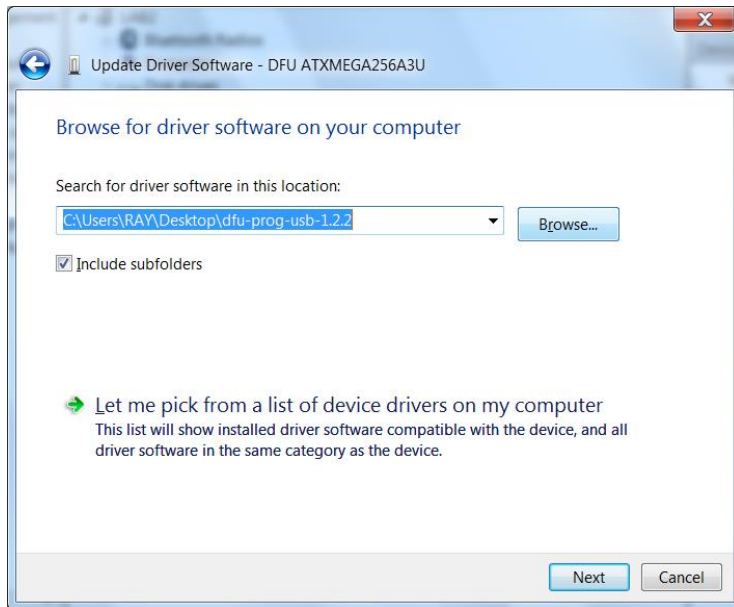
13. Right-click the item and select “Update Driver Software...”



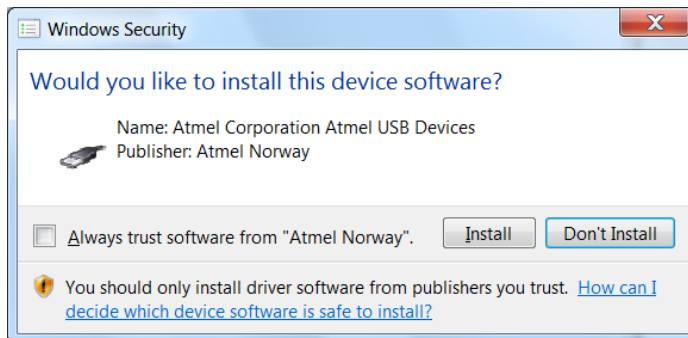
14. Click the “Browse my computer for driver software” button



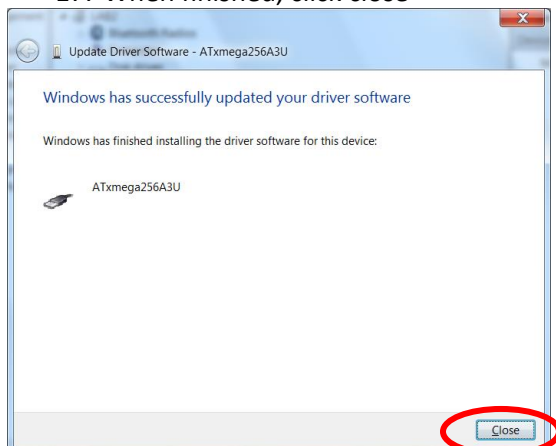
15. Navigate to the extracted ZIP folder in your Downloads folder and click next.



16. If prompted about installing this device software, click "Install"



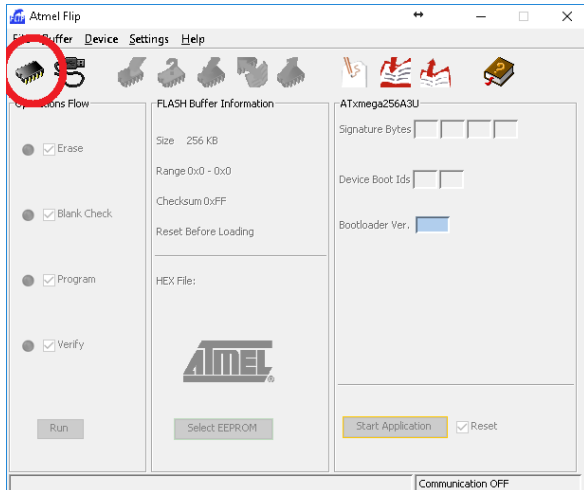
17. When finished, click close



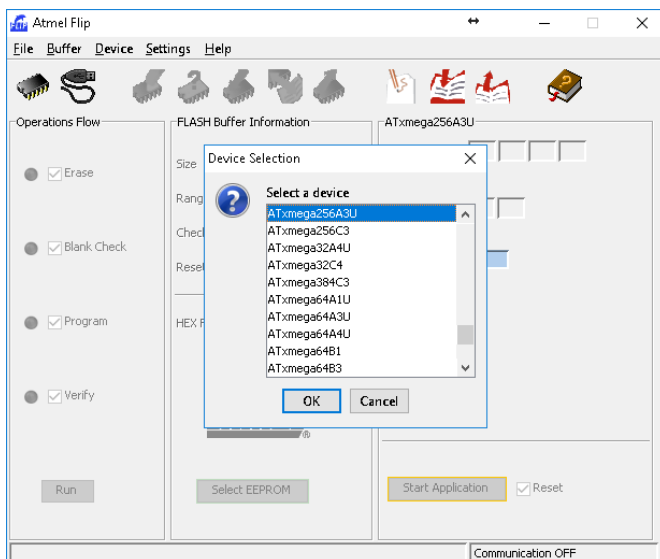
18. Run ATMEL FLIP from the desktop



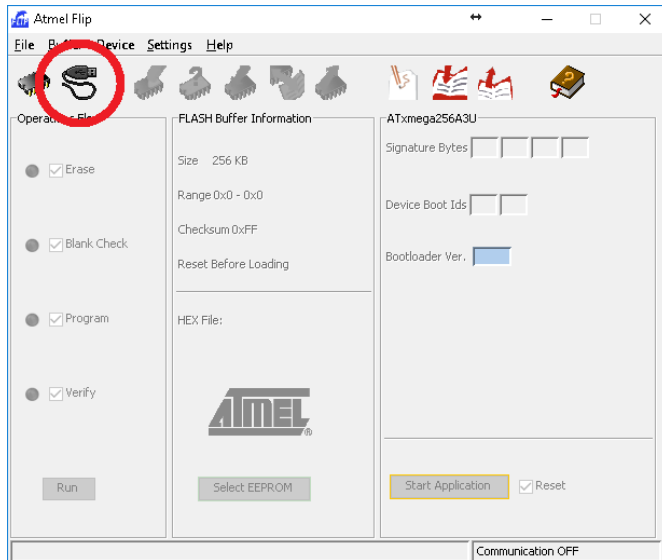
19. Click the chip icon



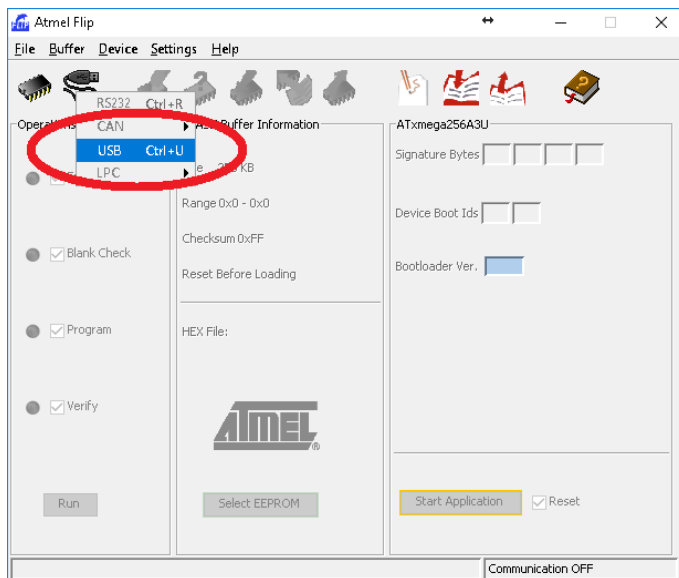
20. Select the device name "ATxmega256A3U" and click OK



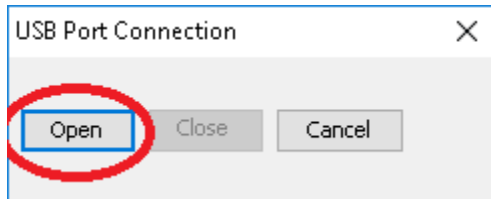
21. Click the USB cable icon



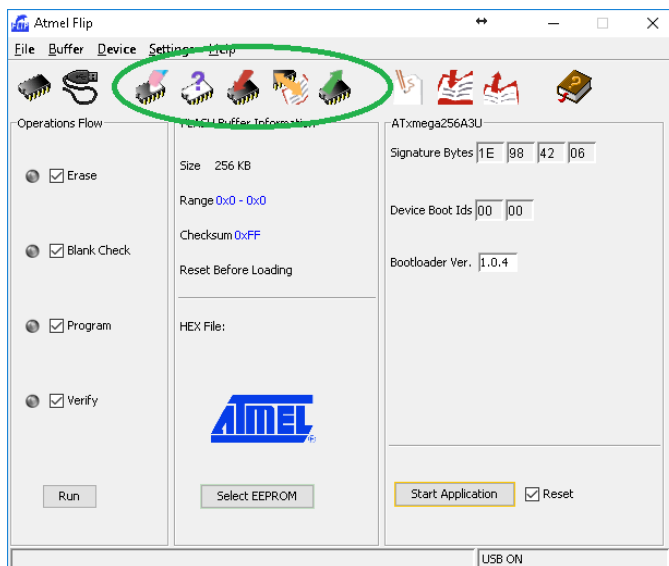
22. Select the option USB



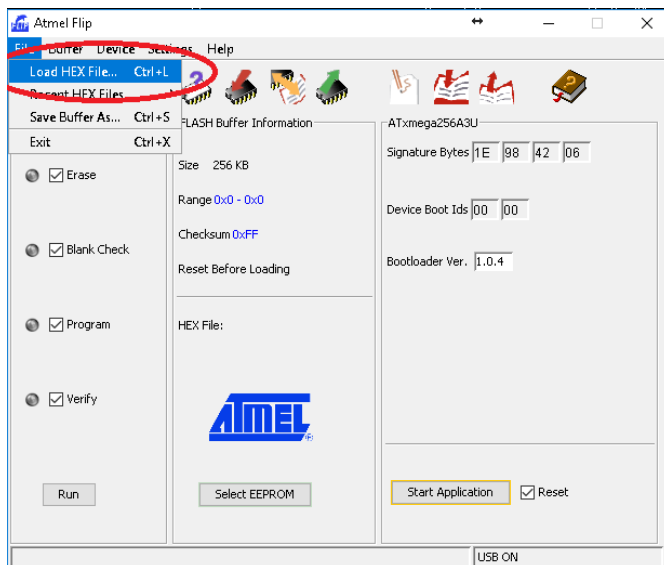
23. A small window will open, click Open



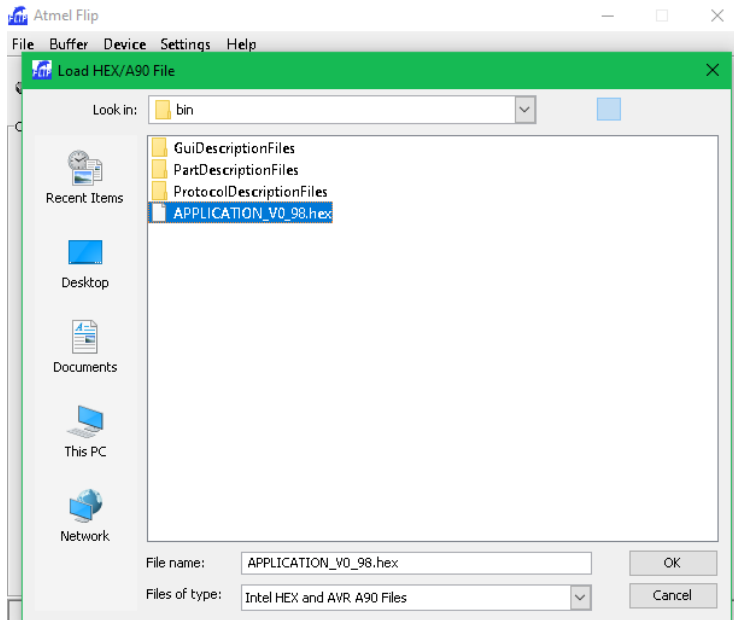
24. Check the items shown in green are now not greyed out



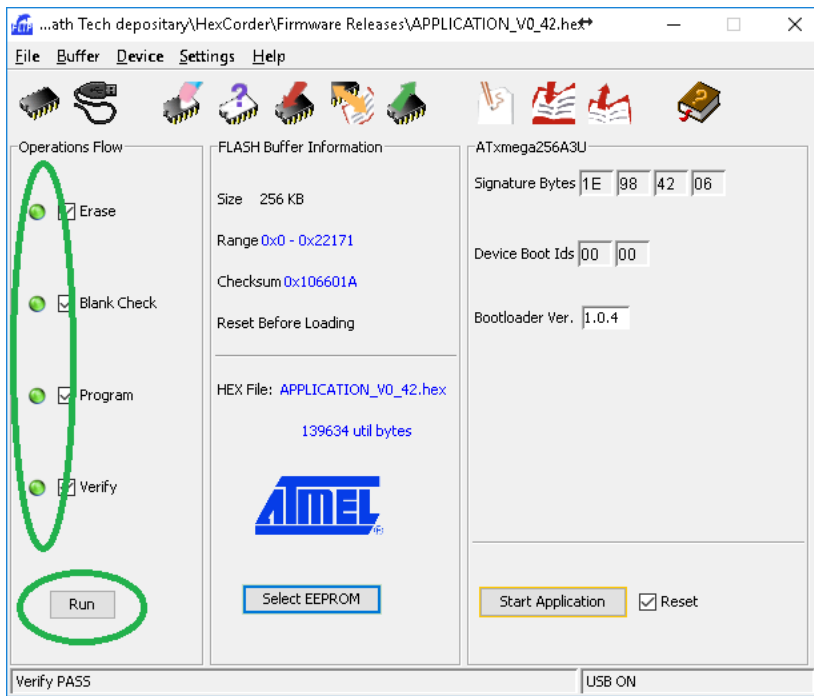
25. Click file, Load HEX file



26. Select the new firmware HEX file to load



27. Click the Run button, the device will be programmed and all 4 lights shown will turn green



28. Power off the Hexcorder Pro. Power it back on and test the USB functionality to ensure that the USB file access is working properly. If there is a file access issue, repeat the update process and try again. If the issue remains, contact Cathodic Technology for assistance.

Contact for additional assistance or other information:

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