ADE/ADE Pro Code Update Instructions

Thank you for your interest in the ADAMnet Drive Emulator (ADE). These instructions describe the process of updating code on your ADE/ADE Pro device. More information about the ADE and code can be found at https://github.com/Kalidomra/AdamNet-Drive-Emulator.

What Is Needed

- Phillips screwdriver (ADE Pro)
- Micro-USB cable (ADE Pro)
- USB Type B cable (ADE)
- Xloader (Arduino .hex loader program for Windows) - https://www.hobbytronics.co.uk/arduino-xloader
- ADE or ADE Pro .hex update file - https://github.com/Kalidomra/AdamNet-Drive-Emulator

Procedure

1. Download the appropriate ADE or ADE Pro update .hex file.
2. Remove any cables and SD card from the device.
3. Attach the USB cable from the computer to the USB connector of the device. The unit will be powered by USB during this procedure. **ADE Pro units require the removal of the four silver front panel screws to lift up panel to expose the Micro-USB connector inside the unit.** See Figure 1.
4. Launch the Xloader Arduino updater program and configure Xloader according to Figure 2. Keep in mind that your 'COM port' and 'Hex file' settings will vary.
5. Select the appropriate .hex file for the device.
6. Select the appropriate COM port for the device in the drop-down list.
7. Click Upload to update the device. The activity LED on the front panel of the ADE Pro will flash during the process which will take approximately 35 seconds to perform. **The activity LED is hidden under the LCD/Button board on the ADE and may be difficult to see.**
8. When the update is complete, the ADE will reboot and display the revision as part of the normal boot process. It is now safe to remove the USB cable and reassemble as necessary.
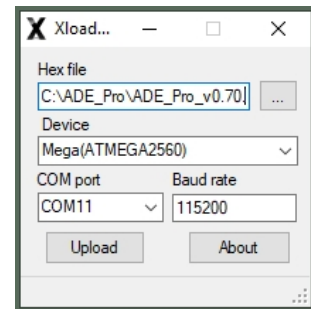

Figure 1: ADE Pro Micro-USB

Figure 2: Xloader Program

Alternative Methods

Linux and Mac users do not have the option to use Xloader which is only available for Windows operating systems. The Arduino IDE suite can be used to compile and load code and is available for Windows, Mac, and Linux . This option will not be described in this document and is for users who are familiar with using the Arduino IDE. https://www.arduino.cc/en/Main/Software