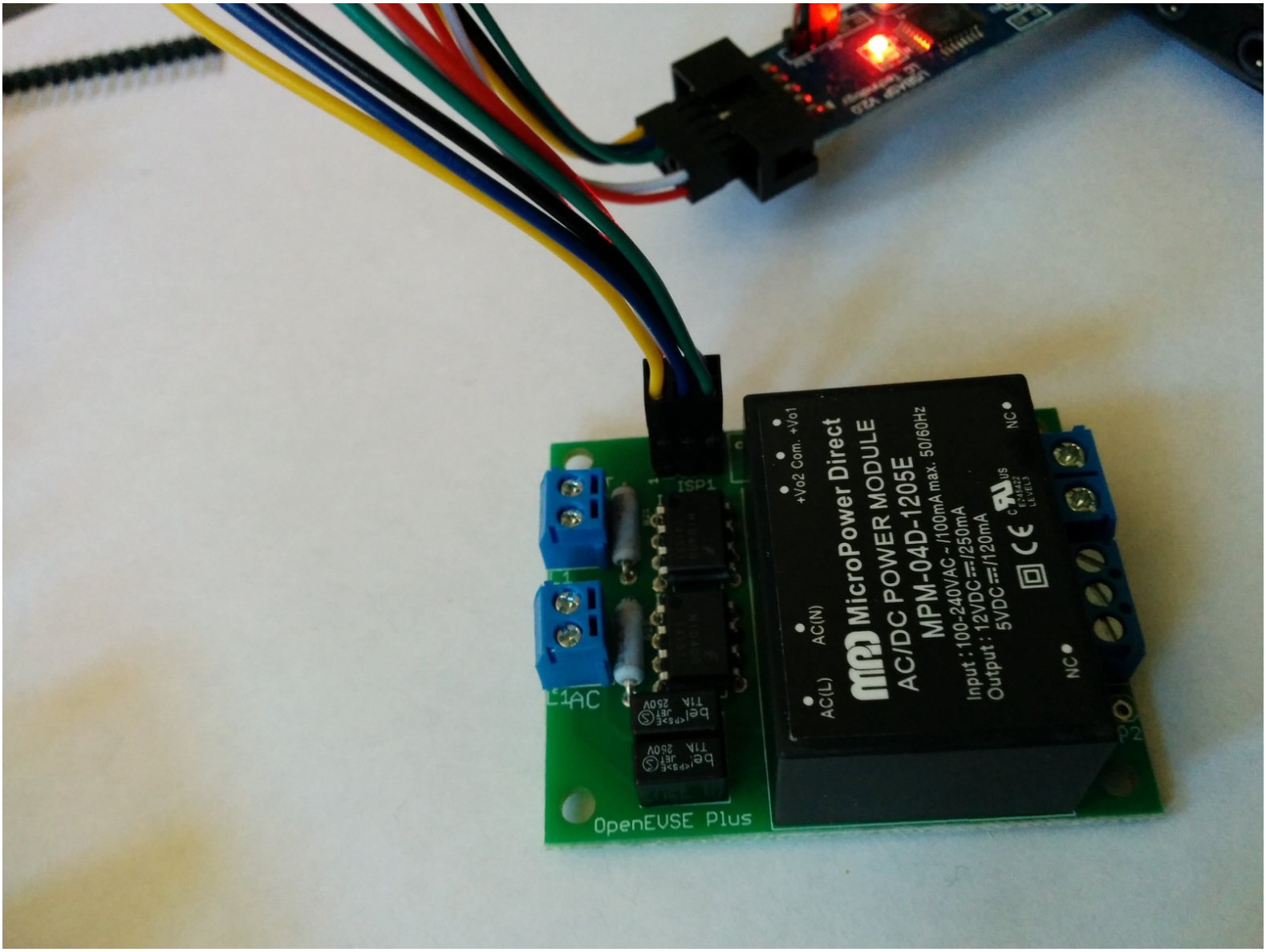
OpenEV

How to Load OpenEVSE Firmware (WinAVR)

Guide on how to load OpenEVSE firmware with OpenEVSE Programmer and WinAVR software.

Written By: Christopher Howell



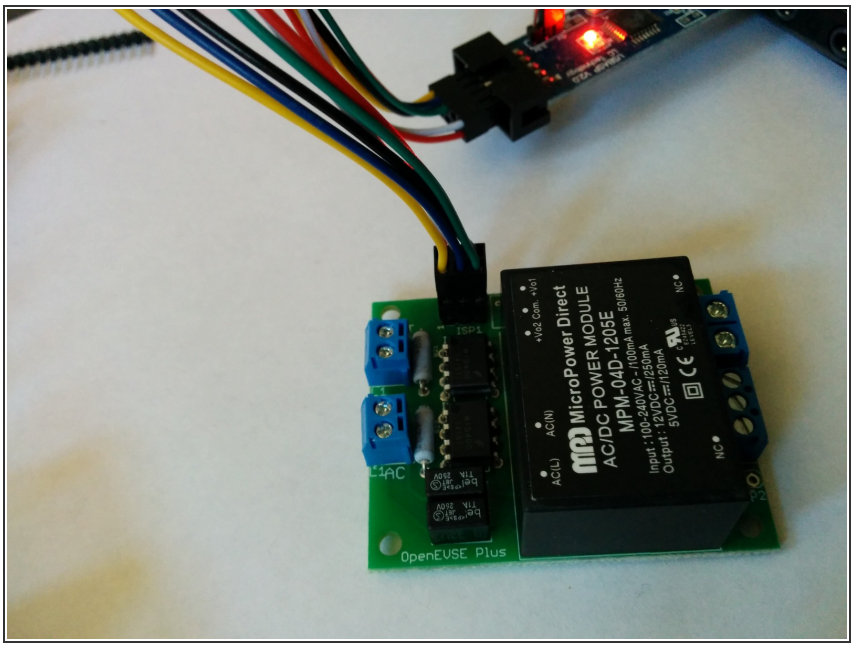
TOOLS:

- Windows PC (1)

PARTS:

- OpenEVSE Plus (1)
- OpenEVSE Programmer (1)

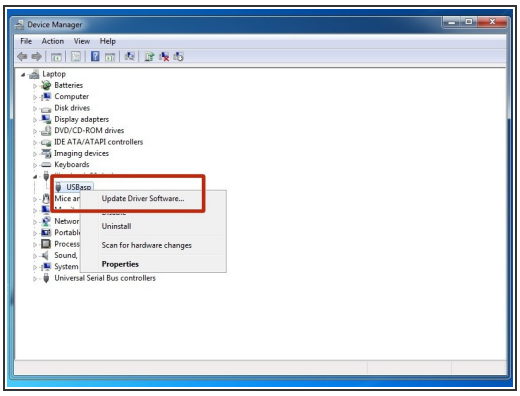
Step 1 — How to Load OpenEVSE Firmware

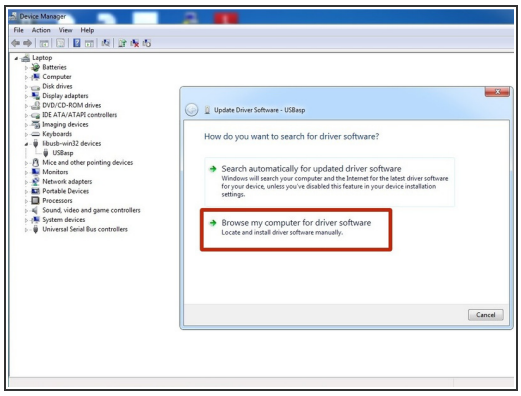


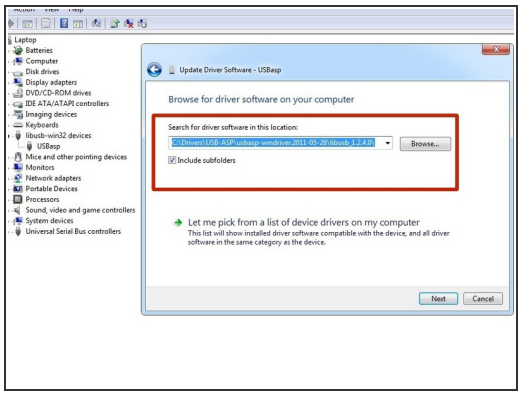
- This Guide explains the Firmware loading process for OpenEVSE.

ⓘ This guide is specifically intended for the Windows Operating system. Advanced users may use a similar process for MacOS and LINUX.

Step 2 — Installing Device Driver.





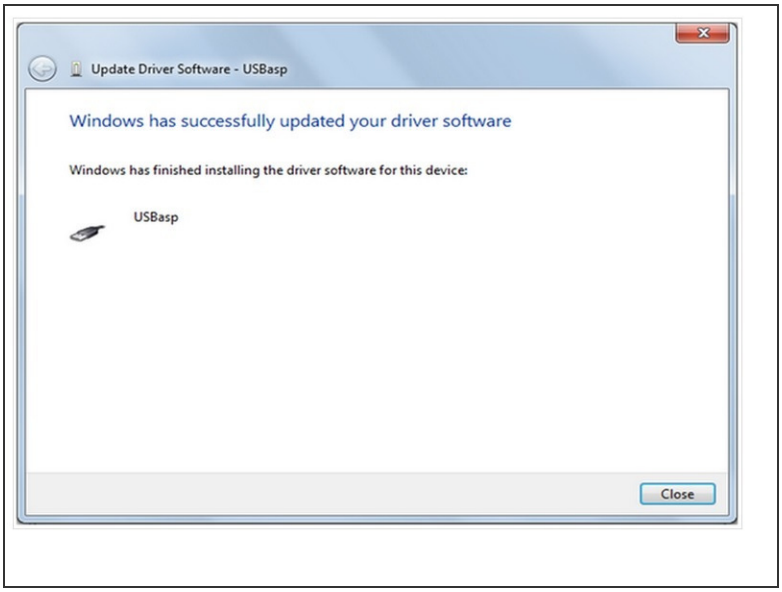


- Download Windows Driver for the OpenEVSE Programmer. Windows Driver. Extract files into a folder of your choice. Example C:\Drivers\AVRISP\

⚠ Windows 8 / 8.1 requires additional steps to disable "Driver Signature Enforcement" follow this Sparkfun Guide. **Windows 7 and earlier may continue.**

- Plug in the OpenEVSE Programmer. Go into Device manager by right clicking on "My Computer" and selecting Manage or through the Control Panel
- Locate the USBasp programmer. It is likely the unknown USB device. Right click and select "Update Driver Software"
- Select "Browse my Computer for driver software". Click Browse and Select the location where you saved the extracted files.

Step 3 — Installing Device Driver (Continued)

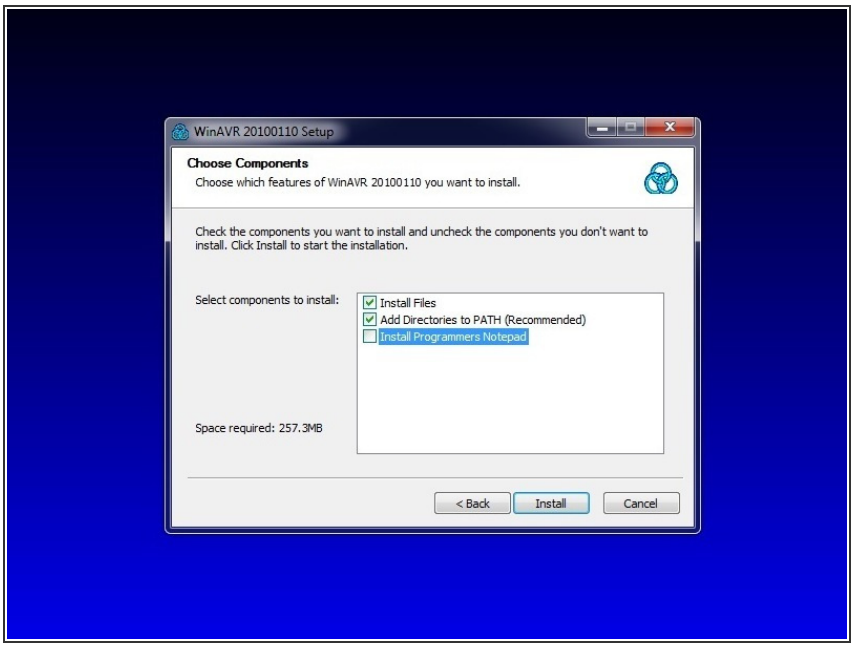


⚠ Depending on your Windows version and settings, you may receive a warning. Select "Install this driver software anyway".

- The driver should now be installed and you should receive a window that says Windows has successfully updated the Device Driver.

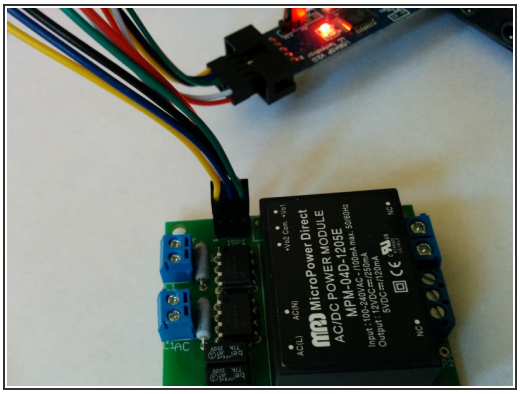
ⓘ No device drivers are needed for MacOS and LINUX.

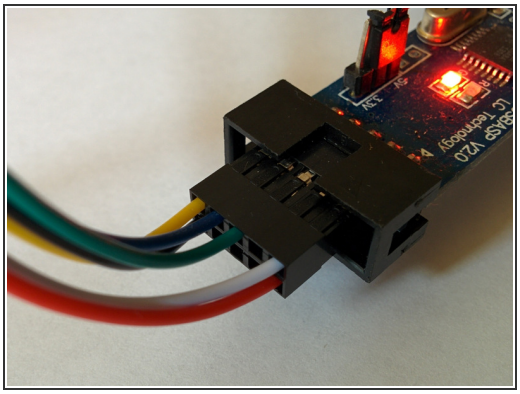
Step 4 — Install WinAVR

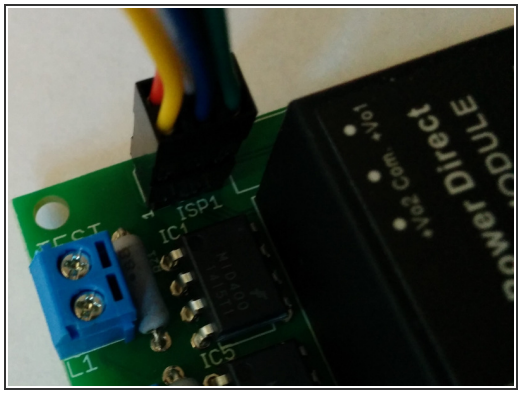


- Download and install the WinAVR software. WinAVR
- Select BOTH the Install Files and Add Path Options. Developers Notepad is Optional.

Step 5 — Connect OpenEVSE to programmer



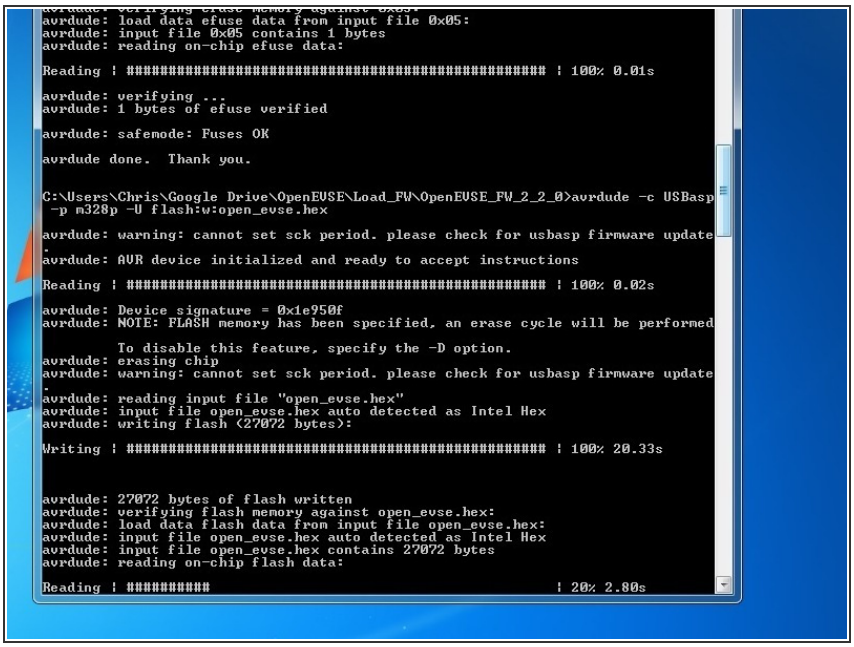




- Connect Programmer to OpenEVSE then connect to USB port on PC.

ⓘ The yellow wire on the 6 pin connector aligns with pin 1 of the ISP connector.

Step 6 — Loading firmware



- Download a pre-compiled HEX file from the OpenEVSE Sources for your OpenEVSE product and your desired configuration.
- Extract files into a local folder.
- Run the flash.bat file. Programming and verification should take about 60 seconds.

If the command window pops up and goes away immediately there is a problem with the Device driver and/or the WinAVR installation.

Warning can not set SCK period is normal and can be ignored.

This document was last generated on 2017-06-18 01:04:28 AM.