

FLASHING THE CB40v2 / CB40Pro PLL or CB40 LED Display via ICSP

1.

Download AVRDUDESS-2.13 at <https://blog.zakkemble.net/avrdudess-a-gui-for-avrdude/>

LATEST **AVRDUDESS-2.13-portable.zip (596.72 KB)**
AVRDUDESS 2.13 (Portable for any OS)
Downloaded 1556 times
MD5: 42A5DD458425F18F82C82AE30A4D5934

Source available on [GitHub](#)

For Linux or Mac users follow the instructions on Zak's web page.

2.

You will need a suitable ISP programmer. Flashing has been tested on the following;



AVRISP mkII



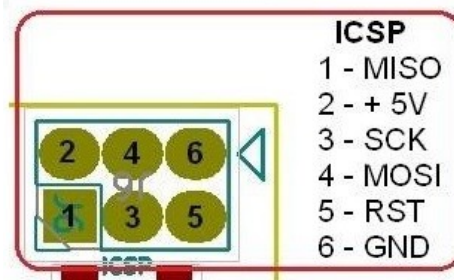
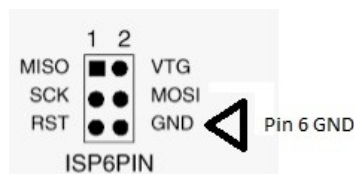
USBTinyISP



ATTiny44 USB ISP

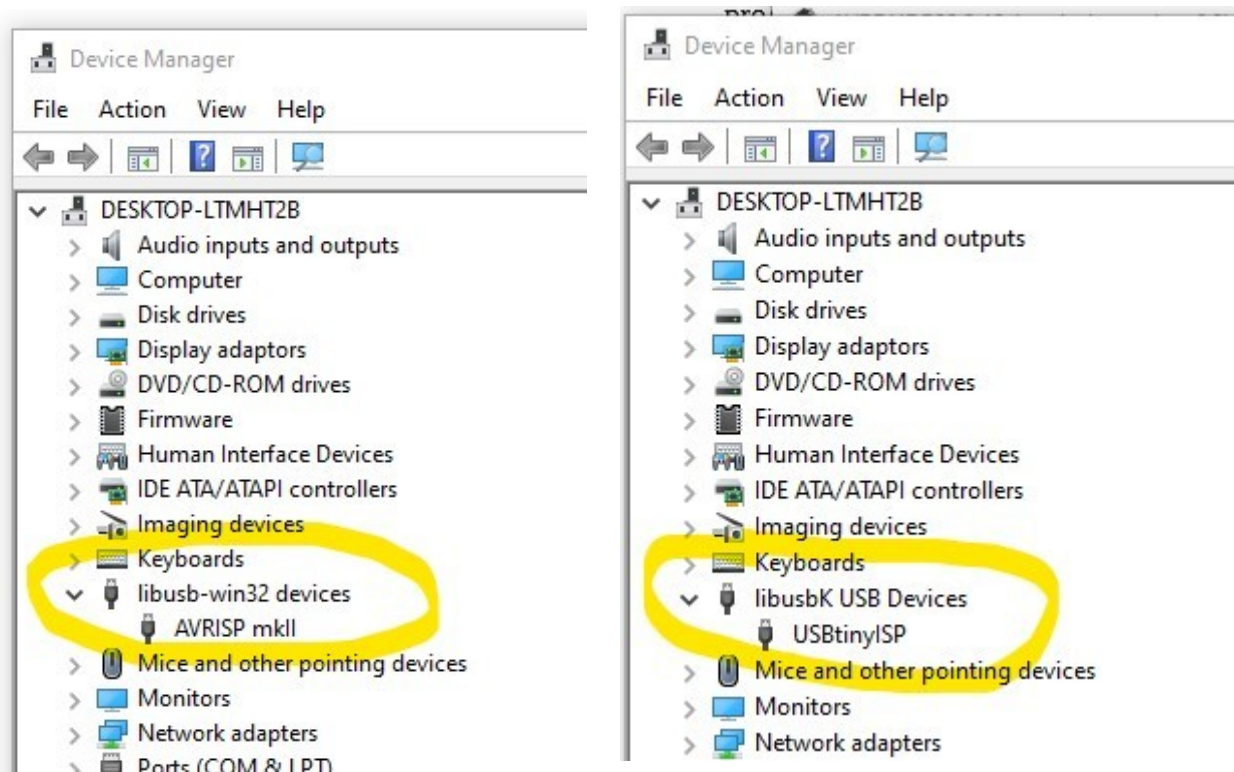
3.

Connect the ISP programmer to your USB port and the 6 pin (some programmers do not supply the cable but is just a 6 wire IDC plug) cable between the programmer and the ICSP header on the Cb40v2 or CB40 LED display.



4.

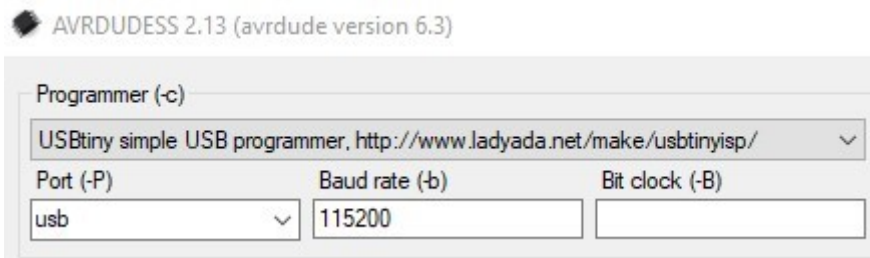
Load up AVRDUDESS and follow the instructions. If you are unable to connect to the ISP programmer check your ISP cable is plugged in correctly. Ensure your computer is using the libusb driver.



If your driver has been loaded correct you can see the device in the Device Manage.

5.

Select your ISP programmer. For both the USBTiny and ATTiny44 select **USBtiny simple**.



For AVRISP mkII select **Atmel AVR ISP mkII**

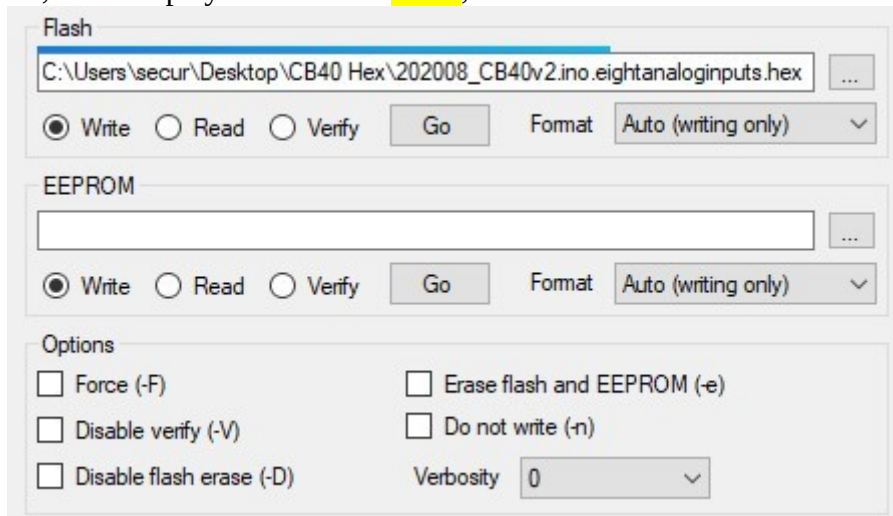
In port select **usb**

Baud rate type in **115200**

Leave Bit clock blank

6.

Load the CB40v2, LED display hex file into **Flash**;



Leave all the other settings alone.

7.

Select your MCU.

For the CB40v2 and CB40 LED display select **Atmel 328P**

For the CB40Pro PLL select **Atmel 1284P**



Click on **Detect** and it should identify the MCU

Click on **Read** to read the current MCU fuse settings

Click on **Read** to read the current lock bits

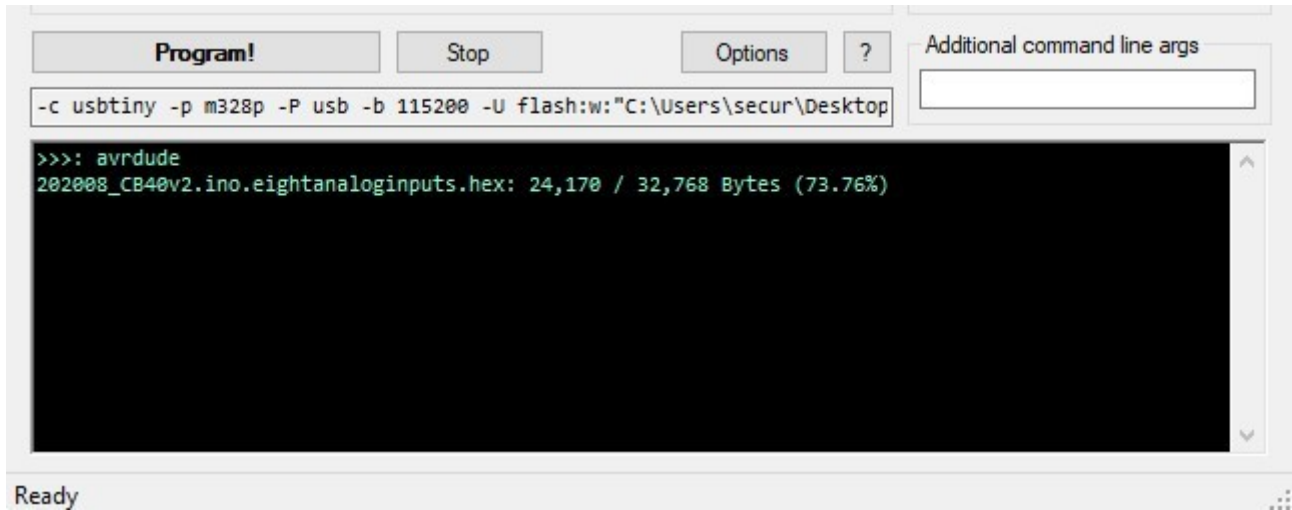
**DO NOT CHANGE ANY OTHER SETTINGS AS THIS
MAY BRICK YOUR CB40**

8.

Click on Program and the firmware will be updated.

CB40v2 will require you to go back into the menu and reprogram your settings.

CB40 LED display does not require any further setup after flash.



Notes: