

# How to Update the Flash on Your Eggfinder LCD

## (Revised 12/2025)

Occasionally, we publish updates to the Eggfinder LCD software. Typically, this is to fix (hopefully) minor bugs, or to add new features that have been suggested to us. The Eggfinder LCD's software can be updated using the same serial interface that we use for updating firmware and troubleshooting with most of our products. Originally (2013-2021), we shipped a cable that used as Prolific PL2303 chip, however that cable does not work with Windows 11 so we now ship a USB-Serial "Dongle" interface using a Silicon Labs CP2102 chip instead. If you happen to have another USB-Serial interface laying around, such as one using an FTDI RL232 chip, that will work too; you just need to make sure the pin/cable functions match.

Caveat: Currently, we only support updates from Microsoft Windows PCs. Sorry Apple/Linux fans... it's because Win-AVR only runs on Windows. You MAY get it to work on an Apple/Linux hypervisor, but that's way out of our league...

1) Download and install Win-AVR.

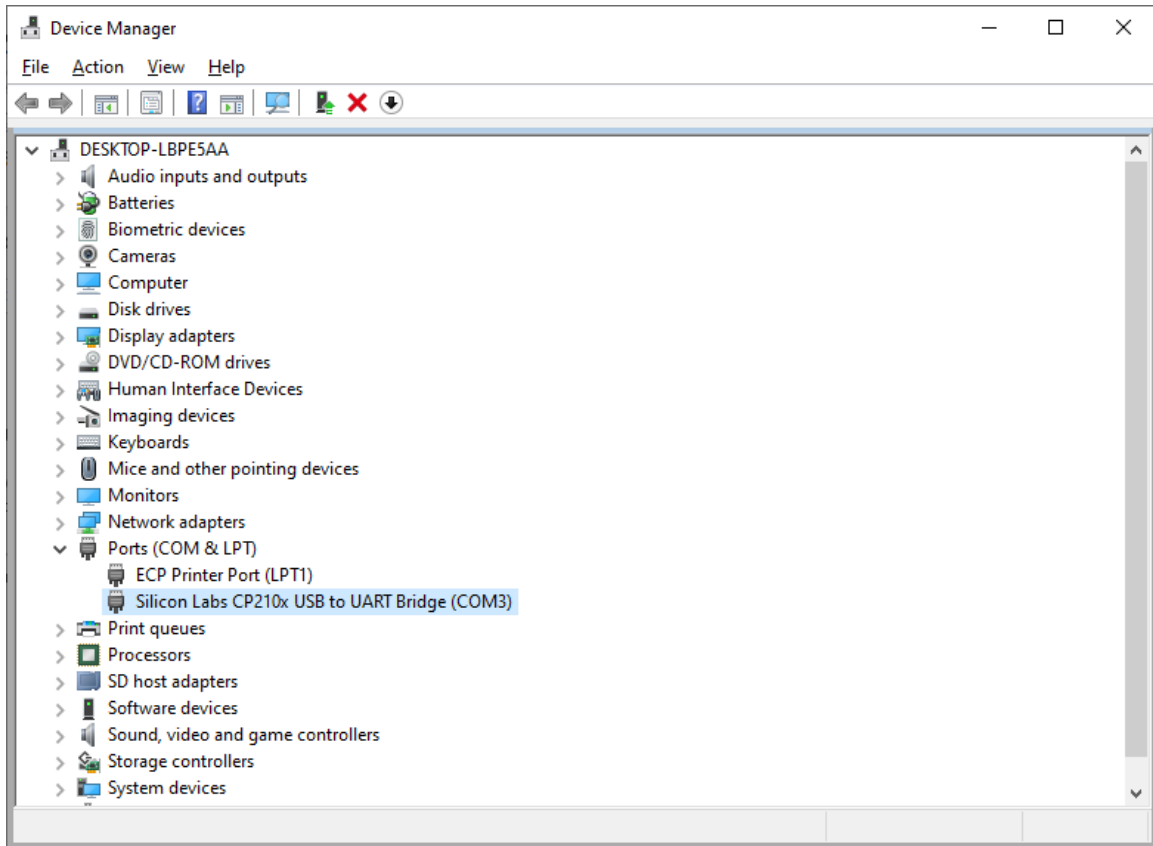
You will need the Win-AVR AVR processor toolkit program for your Windows PC. This only needs to be installed on your PC once. You can get it at:

<https://sourceforge.net/projects/winavr/files/WinAVR/20100110/>

Download the installer program, then afterwards right-click on the downloaded .exe program and select Run as Administrator. Take all of the defaults. Don't be put off by the fact that the program is from 2010... it works just fine and really never needed any updating.

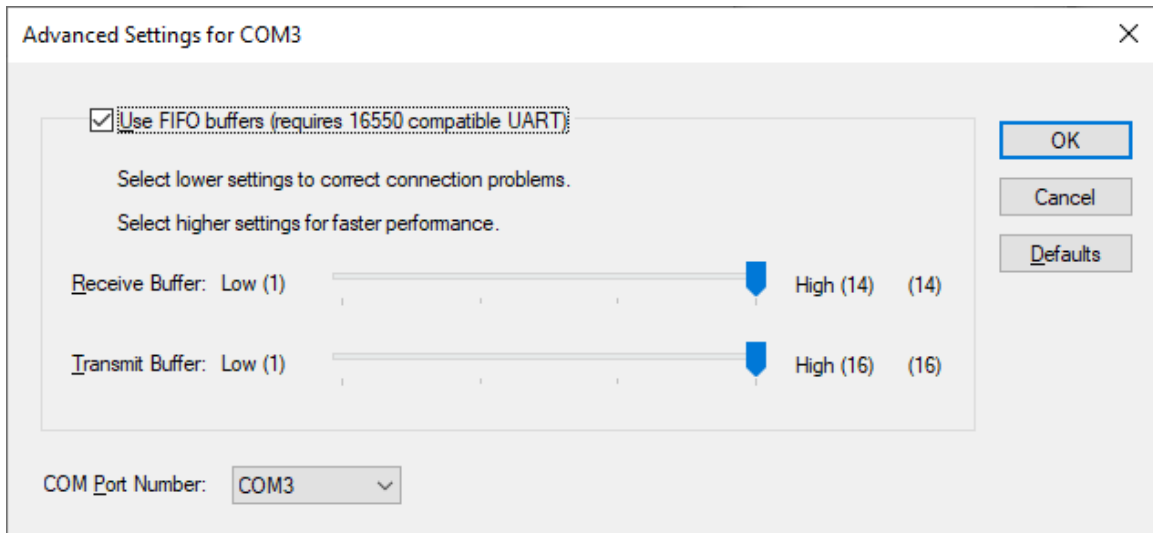
2) Plug the USB-Serial cable or USB-Serial Dongle into your PC.

3) Go into Device Manager (you can get there with the Windows "search" box), and find the device under "Ports" that corresponds to your interface. If you have the old cable (Windows 10 or below) it will say "PL2303 USB Serial Bridge", if you have the newer USB "Dongle" it will say "Silicon Labs CP2102x USB to UART Bridge".

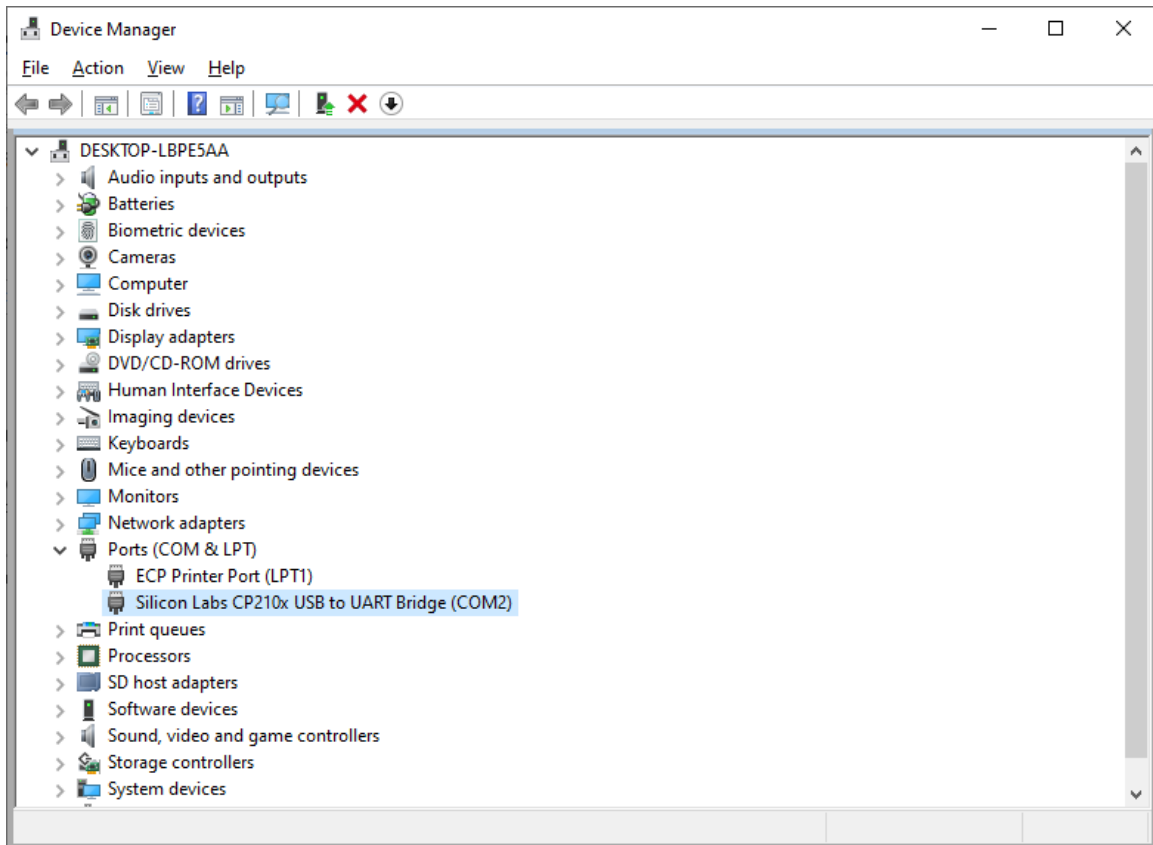


If the port is COM2, you can skip to the next step.

If the port is anything OTHER than COM2, you will need to change it to COM2. Right-click on the port and select “Properties”, then go into the “Port Settings” tab. Click on the “Advanced” button, and you’ll see the port setting.



Click on the COM Port Number, and change it to COM2. If Windows complains about it being In Use, just ignore the warning. Click on OK to everything, and you should see the Device Manager screen again, only the port should now be COM2.



4) Go to the [EggtimerRocketry.com](http://EggtimerRocketry.com) site, and under the Support tab find “LCD Receiver Support”. Download the update .zip package, then unzip it to C:\Eggtimer.

You should see two files extracted, one called “Eggfinder\_LCD\_v\_m.hex” and “Eggfinder\_LCD\_v\_m.bat” (where v is the major version and m is the minor version). For example, version 2.05a will contain “eggfinder\_lcd\_2\_05a.bat” and “eggfinder\_lcd\_2\_05a.hex”.

5) Start a Command prompt on your PC, either by selecting Command from Start/Accessories or by typing “cmd” in the Windows search dialogue box.

6) Type “CD \Eggtimer” to change to the directory where you extracted the software.

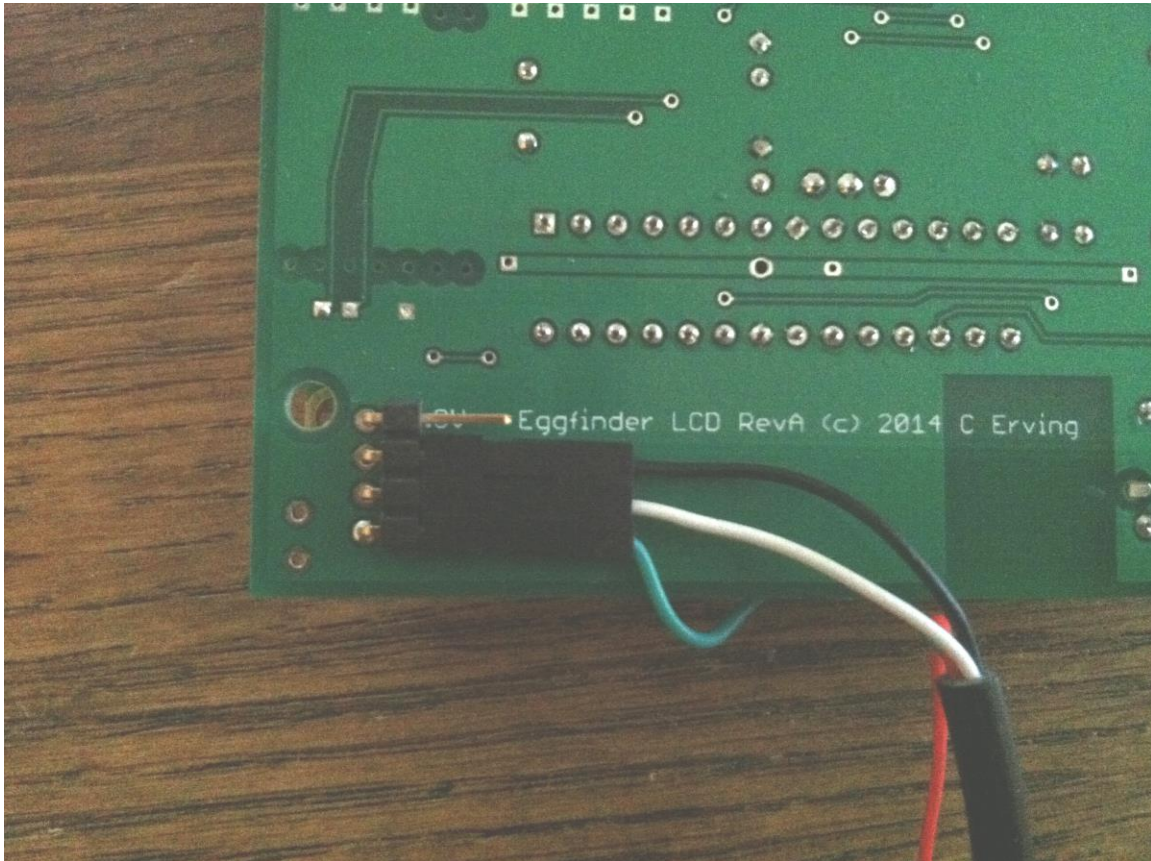
7) If you have a Bluetooth module connected to your Eggfinder LCD, disconnect the cable from the Eggfinder LCD’s 4-pin serial header (on the bottom of the board).

Connect your Serial Cable to your Eggfinder LCD’s serial header as follows (the colors and the picture are for the older Prolific cable, if you have the USB Dongle or another cable make sure you match up the PIN **functions**, NOT the colors because they may vary).

**DO NOT CONNECT ANYTHING TO THE PIN ON THE HEADER MARKED 3.3V!**

## CONNECT:

GND on Cable (BLACK) or USB Dongle “GND” → GND pin on 4-pin header  
RXD on Cable (WHITE) or USB Dongle “RXD” → TX pin on 4-pin header  
TXD on Cable (GREEN) or USB Dongle “TXD” → RX pin on 4-pin header



(Note that this picture uses the older cable, and an older LCD receiver version... the markings and functions on the 4-pin header are identical for every version of the LCD receiver board).

8) Get a small paperclip or piece of wire (like a small paperclip) and short the two pads marked “RST”, located at the corner of the circuit board right next to the 4-pin serial connector. Turn on your Eggfinder LCD, if the RST pins are shorted you shouldn’t hear the startup beep tone; if you do, check your jumper.

Note: Don’t push the paperclip in very far, it only needs to be pushed in far enough to make contact with the two RST pads. If you push it in too far, it may cause a “bounce” when you pull it out in the next steps, which will reset the processor and abort the upload.

**\*\*\* READ THE NEXT STEPS CAREFULLY \*\*BEFORE\*\* CONTINUING \*\*\***

9) Type “Eggfinder\_LCD\_x\_xxx.bat”, replacing the “x”s by the version number (i.e. “Eggfinder\_LCD\_2\_05a.bat”). Get ready, get set, then hit the Enter key...

10) IMMEDIATELY remove the shorting jumper that you placed across the RST pads. If it “takes”, you will start to see a lot of stuff scroll rapidly across your screen. This means that it’s uploading, this is good. After about a minute or so it will stop and the window will close, your Eggfinder LCD will reset, and it will go into the normal operational mode (you’ll hear a long beep and see the “welcome” screen). Turn it off and disconnect the serial cable. Turn it back on, and confirm that the version on the LCD display matches the uploaded software version. If it does, you’re done!

Sometimes the update won’t “take” on the first try. If that happens, repeat steps 8 through 10. The timing can be a little tricky sometimes, the key thing is that you need to pull out the jumper immediately after you launch the .bat file. If you release it too late, the bootloader won’t know that an upload is in progress and will ignore it.

If for some reason it halts in the middle of the update, this may appear to “brick” your Eggfinder LCD, i.e. it will appear to be dead when you power it up. Since the bootloader can’t be erased by the update, however, all you need to do to get it back is to redo the update. Trust us, it works... we’ve rescued many “dead” devices by simply reflashing them.

If you have any problems updating your Eggtimer, drop us a line at [support@eggtimerrocketry.com](mailto:support@eggtimerrocketry.com) ... we’ll get back to you as soon as possible.