

# Update or Reflash

Your Maxduino Arduino Device

# Needs to be flashed twice

- Maxduino devices have to be flashed twice.
- 1<sup>st</sup> time to get the logo embedded in the EPROM with part of Maxduino uploaded
- 2<sup>nd</sup> time to get the running version of Maxduino properly
- These are necessary steps to maximise the Arduino Nano Memory

# Step 1 download and install TZX\_Tools

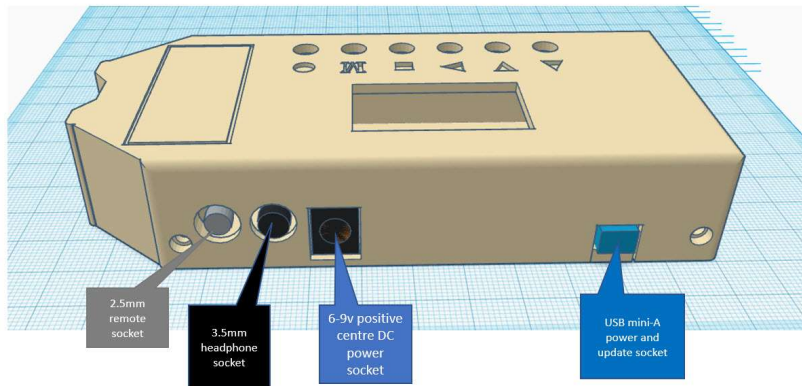
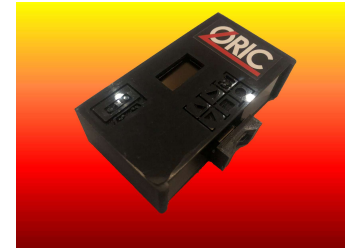
- [https://github.com/rickyelqasem/TZX\\_Tools](https://github.com/rickyelqasem/TZX_Tools)
- For now only works on Windows and has only been tested on Windows 10
- Now make sure your Maxduino is plugged into your PC using a Data/USB cable
- If you are using a USB data cable to update install the CH340 driver > <https://sparks.gogo.co.nz/ch340.html>
- If you are using a USBasp programmer read the section later

Updating Maxduino with USB  
cable

If you have a device that was flashed using a USB data cable

Some devices from YouMakeRobots might have been flashed using a USB Data Cable.

To the right are some pictures to help you recognize one of these devices



## Step 2 – 1<sup>st</sup> Flash

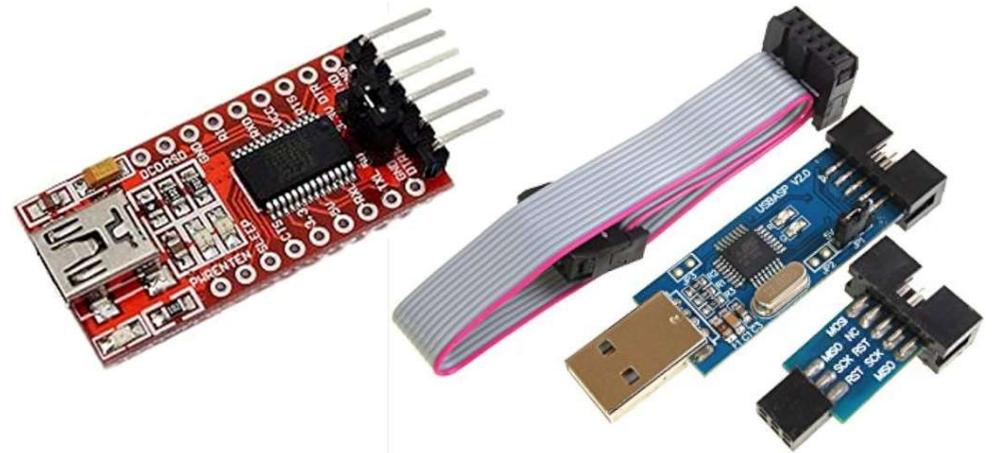
- Pick a logo by clicking the Maxduino Logos Button
- Next, click the Com Port button and select the com port the Maxduino is on
- Then select the Arduino Board – if its not a Maxduino Ultimate its most likely an Arduino Nano OLDBOOT
- Then select the display choosing from either OLED 1306 or XL
- Then click UPLOAD
- Wait until the firmware is uploaded and you will see the logo appear.
- It then LOOKS like Maxduino is running but its not. You need to continue to the 2<sup>nd</sup> flash step.



## Step 3 – 2nd Flash

- Click on the firmware button – refer to the back page to which firmware you should choose.
- Next, click the Com Port button and select the com port the Maxduino is on
- Then select the Arduino Board – if its not a Maxduino Ultimate its most likely an Arduino Nano OLDBOOT
- Then select the display choosing from either OLED 1306 or XL
- Then click UPLOAD
- Wait until the firmware is uploaded and you will see the logo appear.
- Now you are ready.



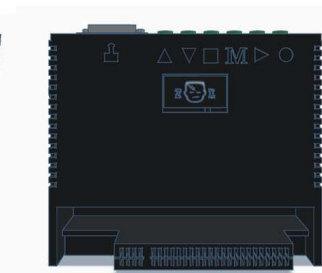
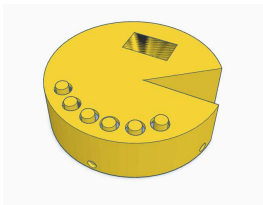


Updating Maxduino with USBasp  
or Serial Programmer

If you have a device that was flashed using a USBasp programmer

Some devices from YouMakeRobots might have been flashed using a USBasp programmer.

To the right are some pictures to help you recognize one of these devices



# Make sure you install the USBasp driver

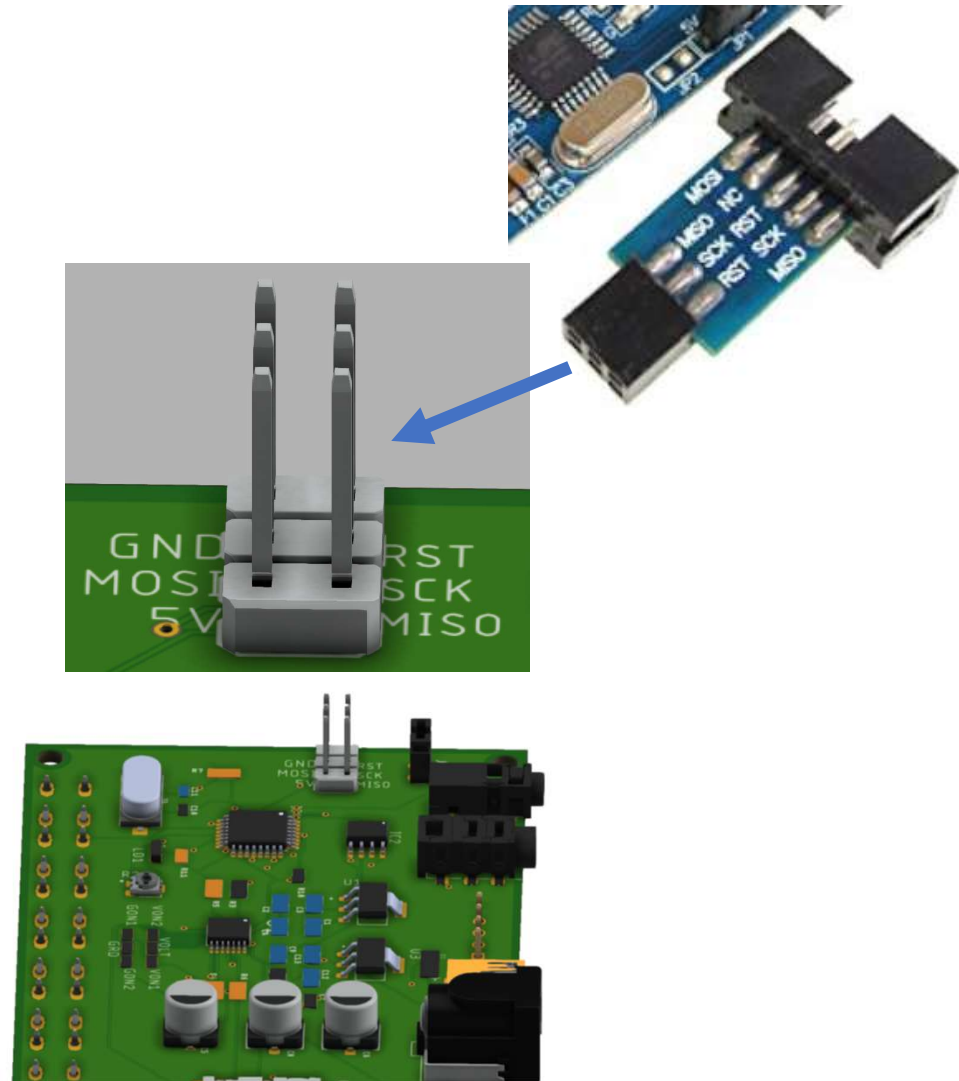
- Step 1: Plug in USBASP. As mentioned before, you need to remember or mark with something on a port.
- Step 2: Install Zadig. ... <https://zadig.akeo.ie/>
- Step 3: Open Option. ...
- Step 4: Check List All Devices. ...
- Step 5: Select USB ASP. ...
- Step 6: Select Libusb-win32. ...
- Step 7: Click Reinstall Driver. ...
- Step 8: Check Your Device Manager.

# WARNING

When using a USBasp Programmer the adapter on the USBasp has to marry up with the 6 header pins on your Maxduino perfectly or you could destroy your Maxduino

Notice that on the adapter, the pins are labelled RST/SCK/MISO on one side and VCC/MOSI/GND on the other side. The 6 header pins on the Maxduino are labelled the same.

Make sure when you plug the USBasp adapter into the header pins that RST is with RST and so on.



## Serial Programmer



- Principal for using a Serial FT232 programmer is the same. The port on the PCB will be labelled well, so make sure you have it the correct way around.

## Step 9 – 1<sup>st</sup> Flash

- Pick a logo by clicking the Maxduino Logos Button
- Next, click the Com Port button and select the USBasp
- Then select the Arduino Board – if its not a Maxduino Ultimate its most likely an Arduino Nano OLDBOOT
- Then select the display choosing from either OLED 1306 or XL
- Then click UPLOAD
- Wait until the firmware is uploaded and you will see the logo appear.
- It then LOOKS like Maxduino is running but its not. You need to continue to the 2<sup>nd</sup> flash step.



# Step 10 – 2nd Flash

- Click on the firmware button and choose the latest version of the firmware. Note that Maxduino Ultimate is only for Maxduino Ultimate devices.
- Then select the Arduino Board – if it's not a Maxduino Ultimate it's most likely an Arduino Nano OLDBOOT
- Then select the Arduino Board – if it's not a Maxduino Ultimate it's most likely an Arduino Nano OLDBOOT
- Then select the display choosing from either OLED 1306 or XL
- Then click UPLOAD
- Wait until the firmware is uploaded, and you will see the logo appear.
- Now you are ready.

