In this article, we will create a custom DMD.

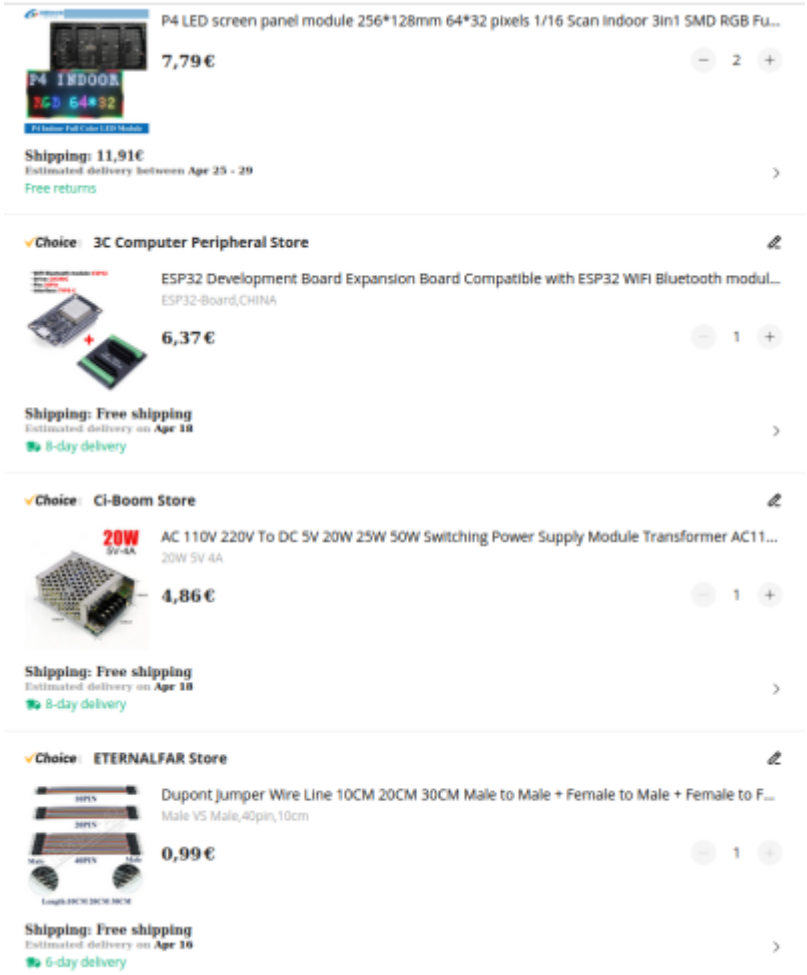
The result

Step 1 : buy the hardware

The list :

- 2 dmd pannels (don't forget to choose 2 of them) DMD Panels
- 1 esp32 and its shield ESP32+shield
- 16 male/male 10cm jumpers Jumpers
- 1 power supply Power supply
- 1 plug Plug

You probably already have a plug at home. Total price including shipping : 39€ (on 2024 april 8).



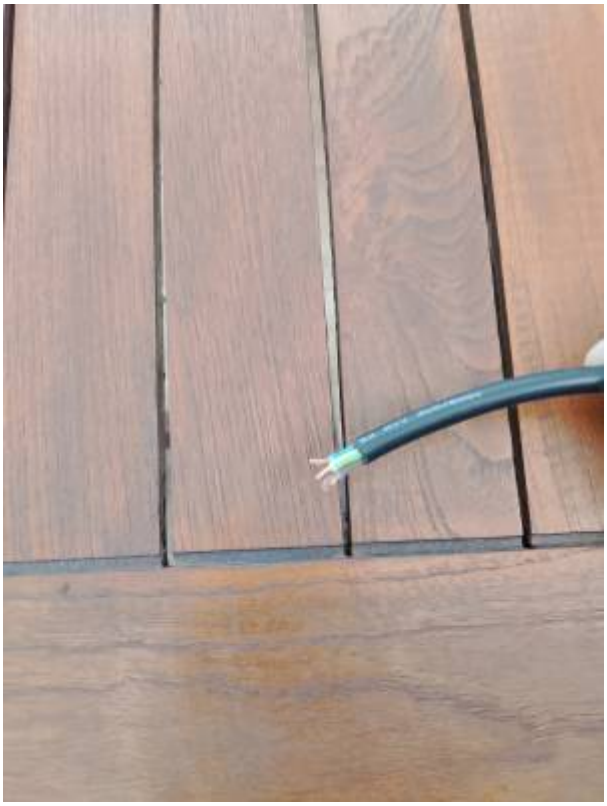
Step 2 : plug the hardware

Step 2.0 - external links

- ZEDMD project
- Original tutorial (en)
- Original tutorial (fr)

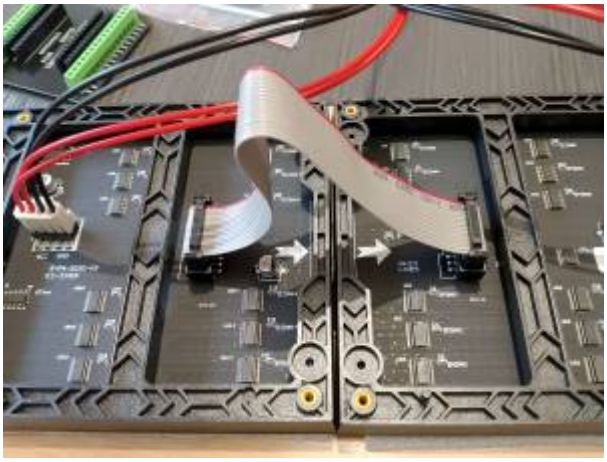
The original tutorials are not related to batocera.linux, but may be very usefull to get some informations. The hardware part is the same for batocera. Just configuration actions/software at the end changes.

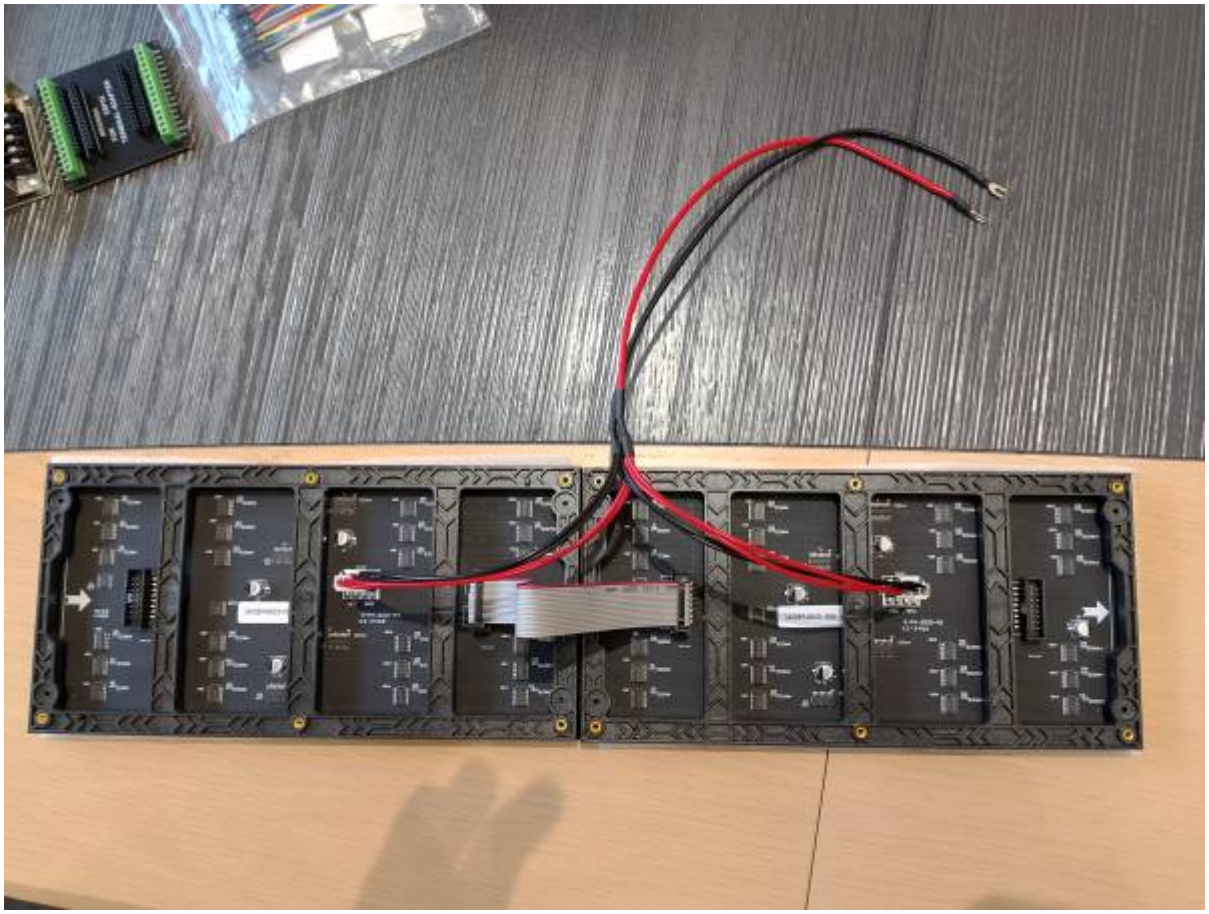
Step 2.1 - Cut and prepare the power wire



Step 2.2 - Plug matrices together with data and power wire

The data and power wire for the matrices are delivered with the matrices. Just plug them. Note that white arrows must go from left to right.



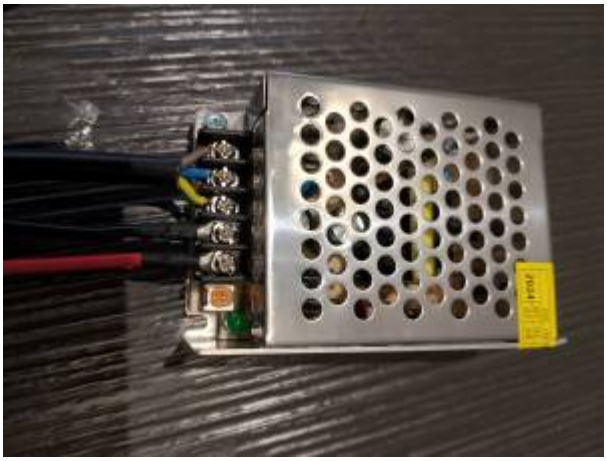


Step 2.2 - Plug the power

Plug the 220V power on the AC. Take care of colors. Phase (brown) / Neutral (blue) / Mass (yellow/green).

Plug the 5V. Take care of colors.

The orange screw on right can be used to adjust the 5V voltage. It is usefully in case the image is not perfect. Too much voltage make the image not perfect.



Step 2.3 - Microcontroller

to be continued