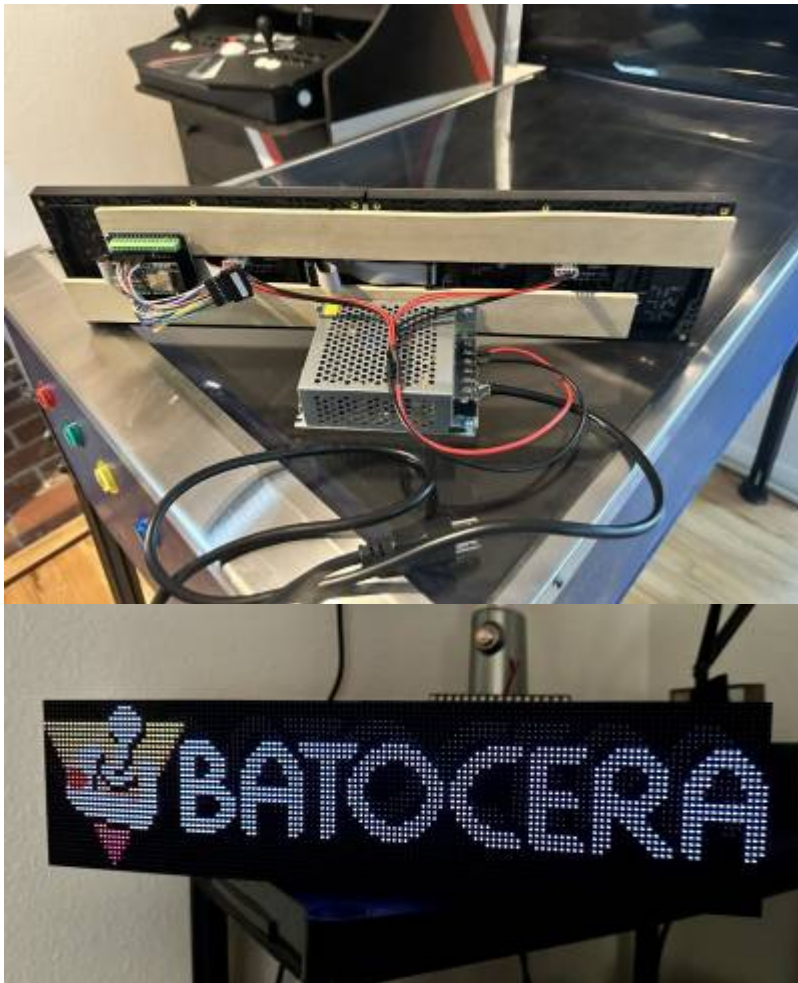


In this article, we will create a custom DMD.

## 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).

P4 LED screen panel module 256\*128mm 64\*32 pixels 1/16 Scan Indoor 3in1 SMD RGB Fu...  
7,79 €  
Shipping: 11,91€  
Estimated delivery between Apr 25 - 29  
Free returns

✓Choice 3C Computer Peripheral Store  
ESP32 Development Board Expansion Board Compatible with ESP32 WIFI Bluetooth modul...  
ESP32-Board,CHINA  
6,37 €  
Shipping: Free shipping  
Estimated delivery on Apr 18  
3-day delivery

✓Choice Ci-Boom Store  
20W AC 110V 220V To DC 5V 20W 25W 50W Switching Power Supply Module Transformer AC11...  
20W 5V 4A  
4,86 €  
Shipping: Free shipping  
Estimated delivery on Apr 18  
3-day delivery

✓Choice ETERNALFAR Store  
Dupont Jumper Wire Line 10CM 20CM 30CM Male to Male + Female to Male + Female to F...  
Male VS Male,40pin,10cm  
0,99 €  
Shipping: Free shipping  
Estimated delivery on Apr 18  
6-day delivery

## Step 2 : plug the hardware

### Step 2.0 - external links

- [ZEDMD project](#)
- [Original tutorial \(en\)](#)
- [Original tutorial \(fr\)](#)

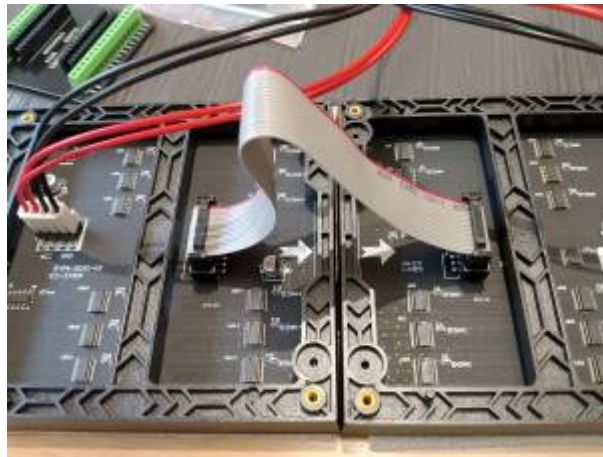
The original tutorials are not related to batocera.linux, but may be very usefull to get some informations. The hardware part is the same for batocera. Just configuration actions/software at the end changes.

### 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.



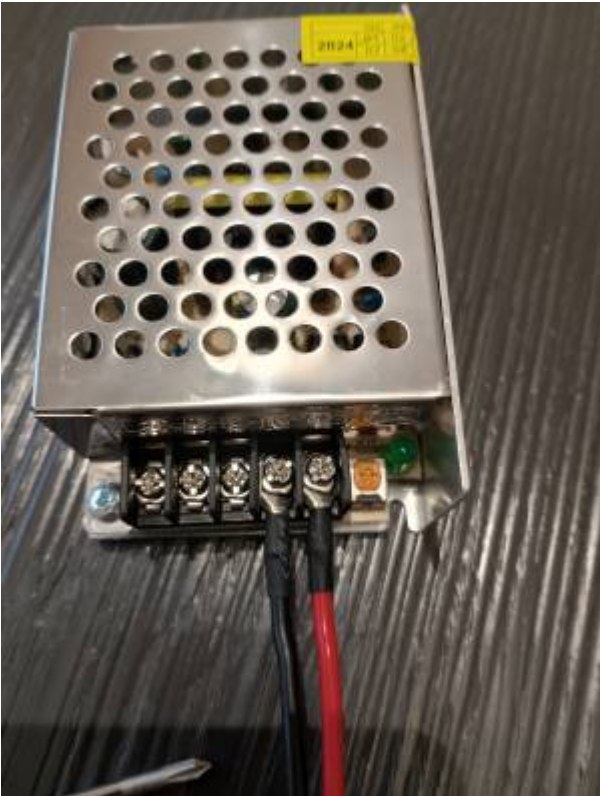


## Step 2.2 - Plug the power

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

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