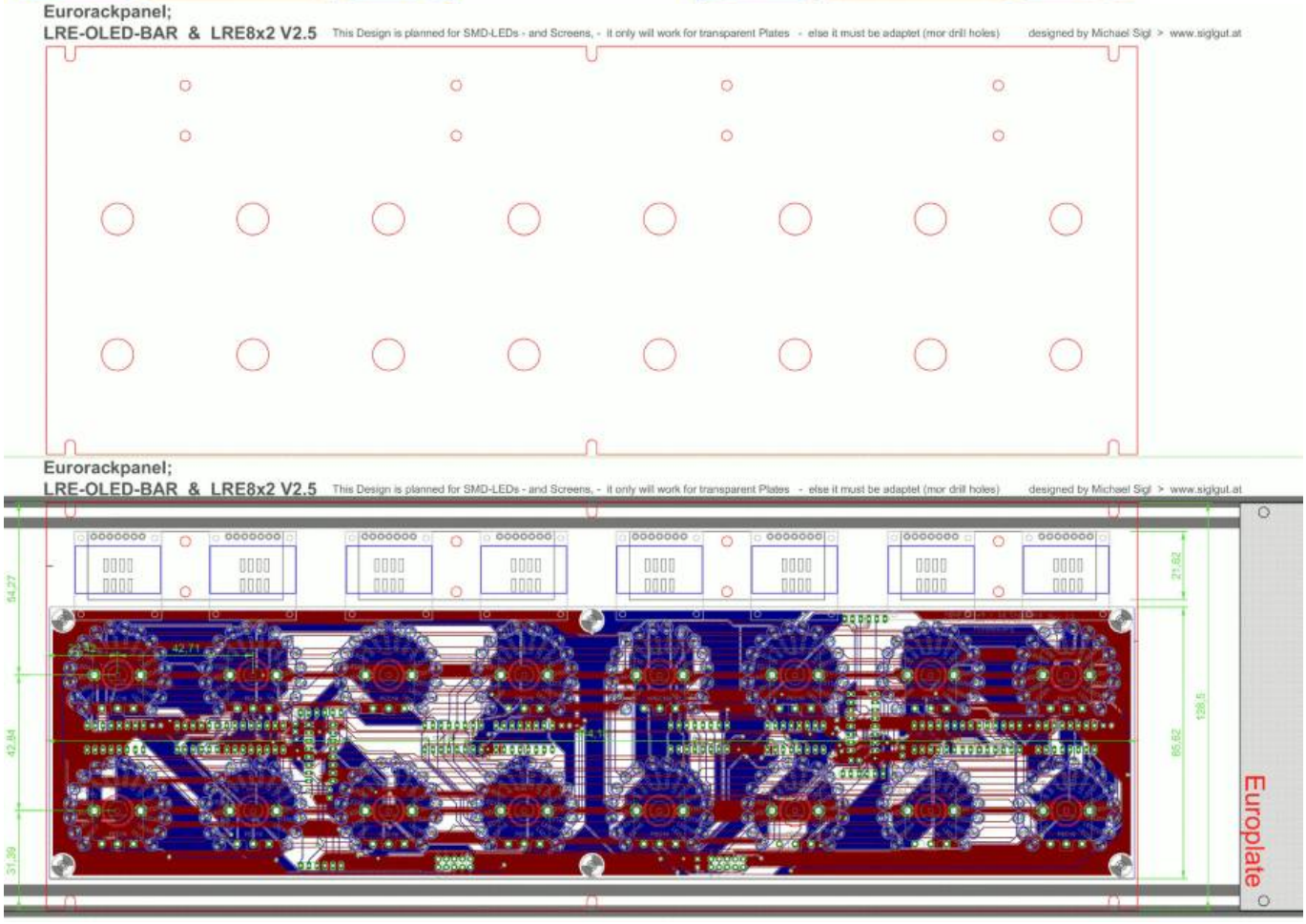
# LRE8x2 096 SSD1306-BAR for Eurorack V2



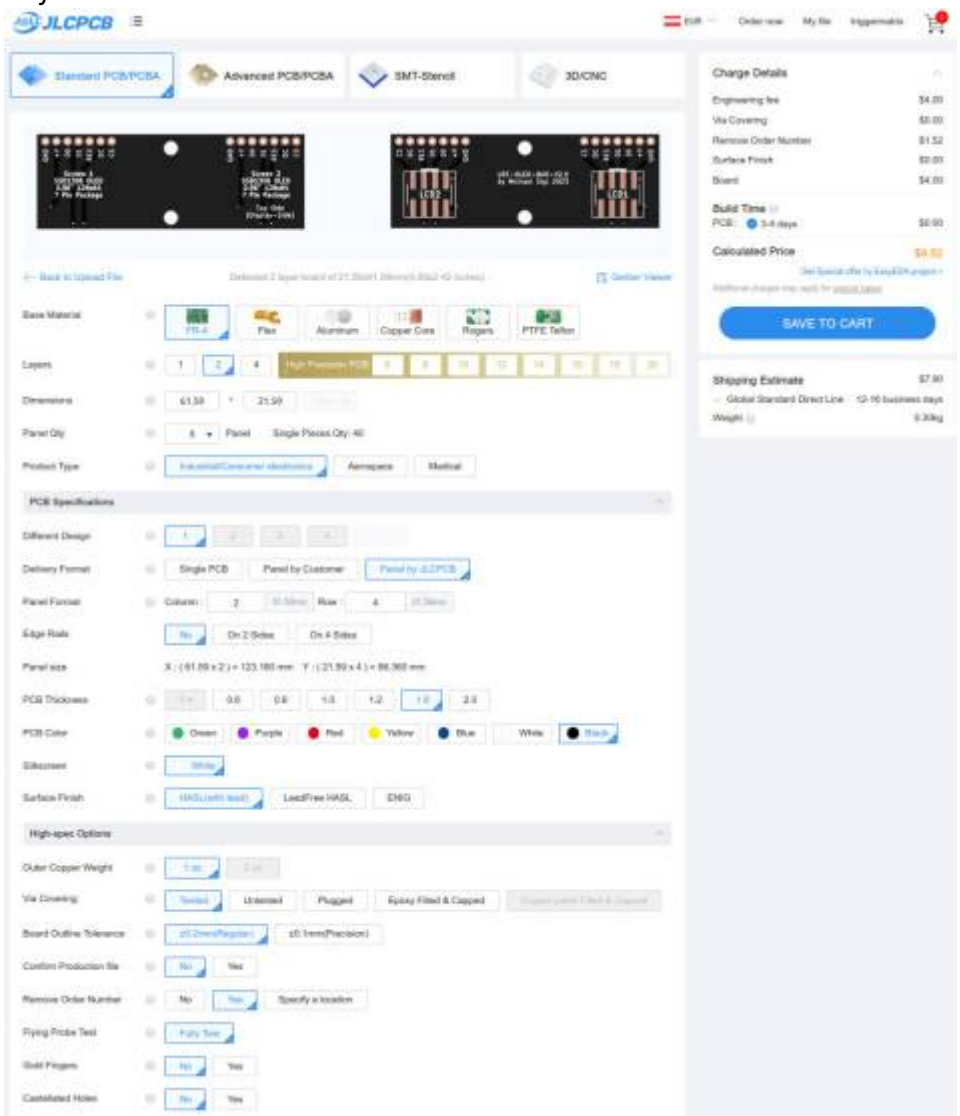

**I made this PCBs to use it with Fairlightii´s mb-lre8x2cs_pcb**

**PCB**

I didnt panalize it, so you have to do this when ordering the PCB online
you will need 4 PCBs per LRE8x2... normally you want to order 8 PCBs (using 2x LRE8x2)




Here are the gerberfiles for production - i made it withJLCPCB
lre-oled-bar2-gerber.zip
These are the settings, if you want to V-Groove it you have to panalize it at 2×4 PCBs at one pcb. the minimal order is 5 PCBs... so you may have then 4 sets left that you can sell or make a present for anyone...



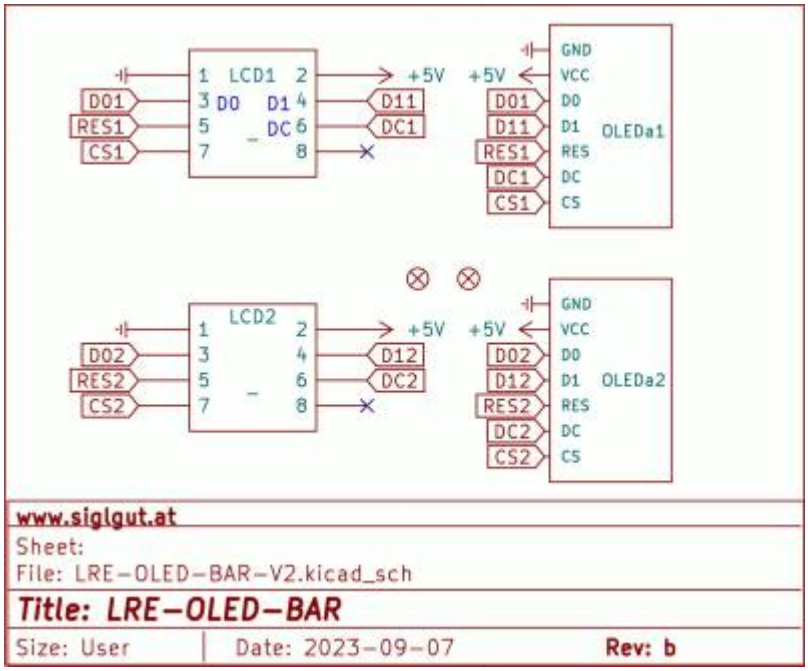

If you use EuroPacket as shipping method you will pay 26€ / thats incl import duty and taxes!

# Hardware Requirements

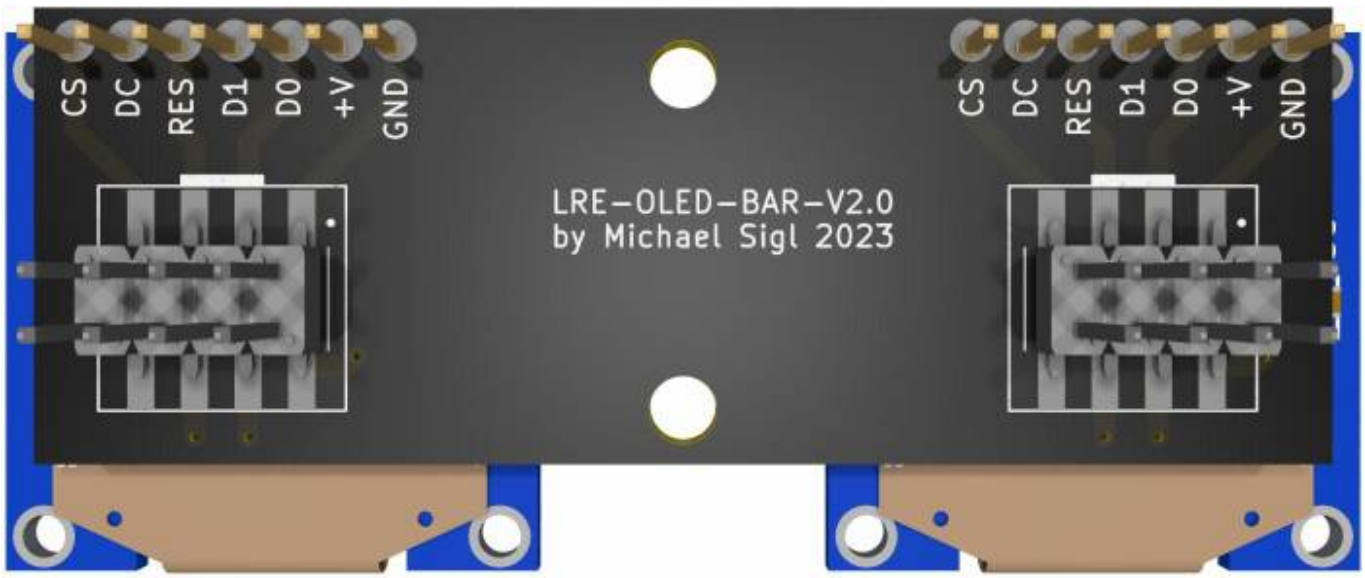
- aMIOS32-Core to connect too

- DisplayDriver-SMD which buffers the Displays, they are already assambled, and 5 pieces costs around 60€ - you only need 1 PCB here (60/5=12€) - the 4 left you will definitfly need some time...
- Soldering Iron - with a Dip that can Handle Thruhole-Parts, solder Paste...
- mb-lre8x2cs_pcb for its nature use
- LRE5-LCD2 as UI to handle Patch management and automation (if you want to use my code...)
- You may need a DINX4 Module, in order to get the encoders inbuilt Pushbotton to work
- If you have not already - you will need a IDC-Crimper for all your Midibox Cables reichelt

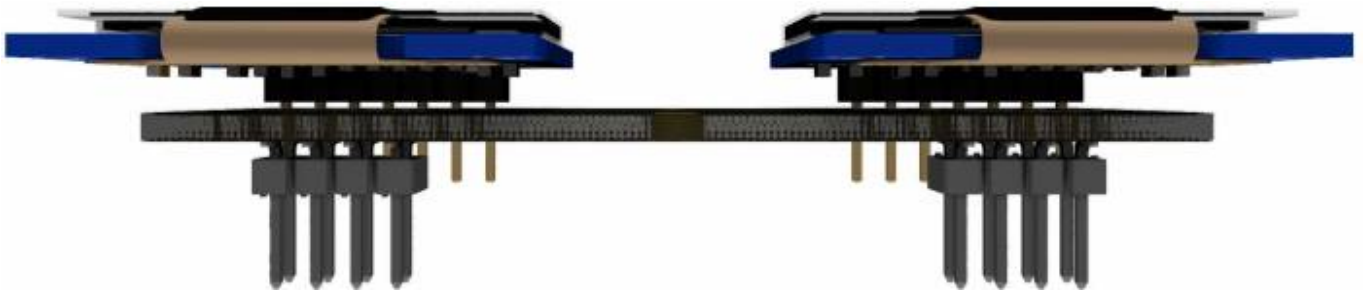
# Shematic




# Building and BOM



**Following Quantity is for 1 PCB (you may need this up to 8 times!):**
2x 1Row 7Pin Male headers (2.54mm pitch) - normally delivered with the Displays!
4x 8PIN Ribbon Connectors (2x4Pin Female) + Cables mouser
2x 8PIN Ribbon Terminals (2x4Pin Male) SMD Variant JLCPCB
2x 0.96“ SSD1306 Screens 7Pin Variant! i recommend white ones, order 2 extras because you might have faulty ones because of Heat-Soldering Damage and replacement for later repair.. Ali express
2x 8Pin Ribbon Cables (i recommend to order a lot off them)
2x M3 Black Screws - cant remember the length - 1,5cm is enough
2x M3 Black Acrylic Spacers - cant remember the right length - i guess 6mm? mouser
2x M3 Nuts



# Frontpanel




I made a DXF File which you can send to Formulor in Germany

2 Plates in one File: lre-oled-bar2-fp-formular.zip
I payed 40€ summed for booth plates incl shipping from Germany to Austria

2 Plates & 2 Plates for a • lre5-lcd2 in one File:fp-lre-oled-2x-euro-formular-2xlre5lcd2.zip I payed 45€ summed for booth plates incl shipping from Germany to Austria

**Recommend Material from Formulor:**

3mm Acrylglas GS 384x384mm, mittelgrau transparent(7C83)

# To Do

The LRE-OLED-Bar & The Frontpanel are a Part of my MSQ-CC-LRE-V2
so look there for more information....

# Community users working on it

- **Phatline** = PCB & Shematic, UI-Programming, Documentation...

Just let a Private message on the forum to user already involved.

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