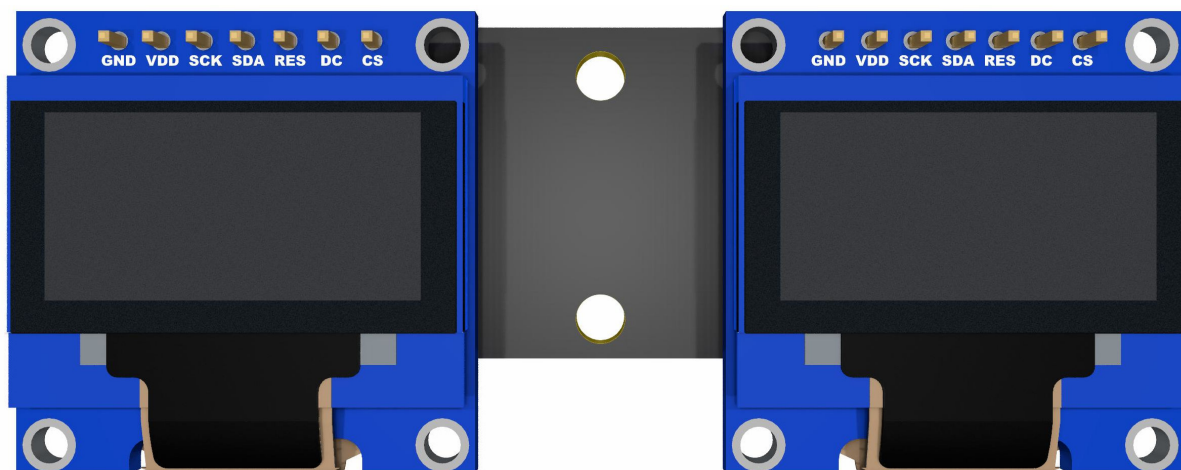
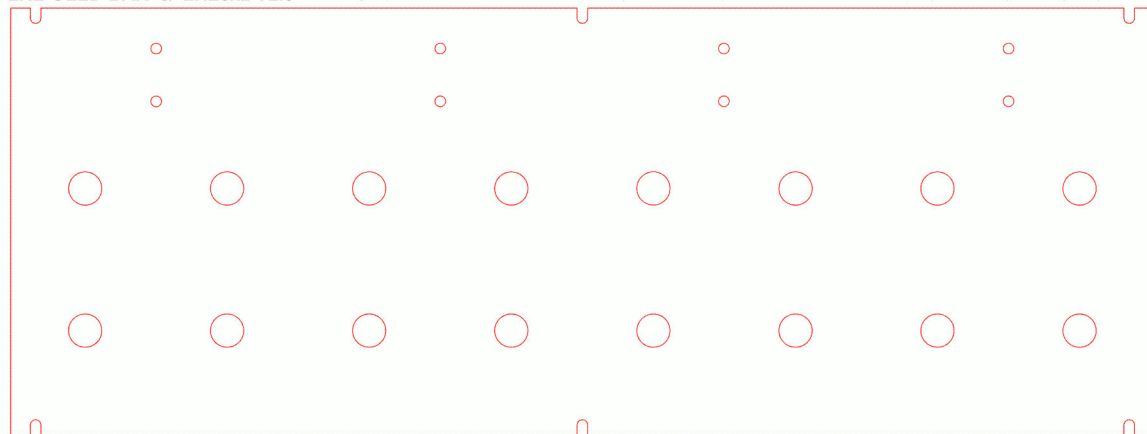


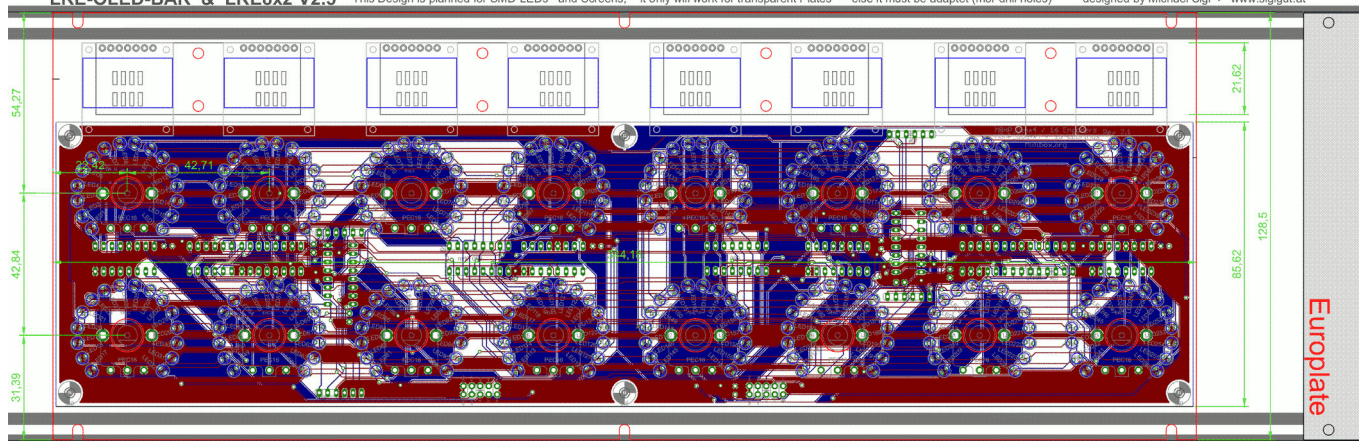
LRE8x2 096 SSD1306-BAR for Eurorack V2



Eurorackpanel;
LRE-OLED-BAR & LRE8x2 V2.5 This Design is planned for SMD-LEDs - and Screens, - it only will work for transparent Plates - else it must be adaptet (mor drill holes) designed by Michael Sigi > www.siglgut.at



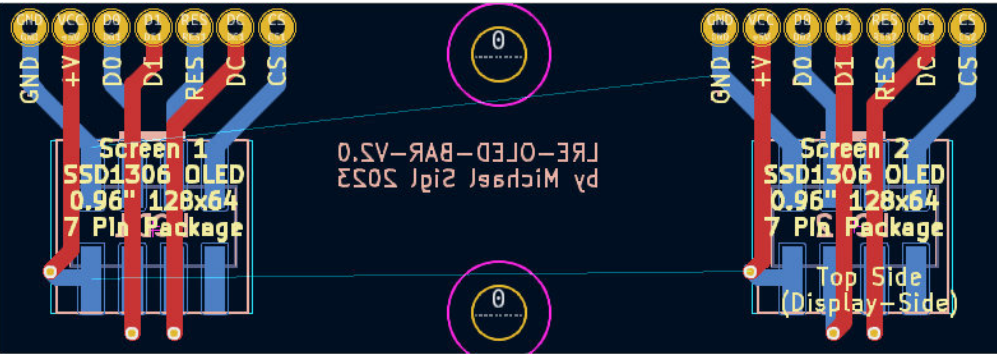
Eurorackpanel;
LRE-OLED-BAR & LRE8x2 V2.5 This Design is planned for SMD-LEDs - and Screens, - it only will work for transparent Plates - else it must be adaptet (mor drill holes) designed by Michael Sigi > www.siglgut.at



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 with [JLCPCB](#)
[lre-oled-bar2-gerber.zip](#)

These are the settings, if you want to V-Groove it you have to panalize it at 2x4 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...

Standard PCB/PCBA

Advanced PCB/PCBA

SMT-Stencil

3D/CNC

Screen 1

Screen 2

0.5V-9A8-0310-39J

0.5V-9A8-0310-39J

0.96" 128x64

0.96" 128x64

7 Pin Package

7 Pin Package

Top Side (Display-Side)

Top Side (Display-Side)

Back to Upload File

Detected 2 layer board of 21.59x61.59mm(0.85x2.42 inches)

Gerber Viewer

Base Material

FR-4

Flex

Aluminum

Copper Core

Rogers

PTFE Teflon

Layers

1

2

4

High Precision PCB

6

8

10

12

14

16

18

20

Dimensions

61.59

21.59

mm

Panel Qty

5

Panel

Single Pieces Qty: 40

Product Type

Industrial/Consumer electronics

Aerospace

Medical

PCB Specifications

Different Design

1

2

3

4

Delivery Format

Single PCB

Panel by Customer

Panel by JLCPCB

Panel Format

Column :

2

61.59mm

Row :

4

21.59mm

Edge Rails

No

On 2 Sides

On 4 Sides

Panel size

X : (61.59 x 2) = 123.180 mm

Y : (21.59 x 4) = 86.360 mm

PCB Thickness

0.4

0.6

0.8

1.0

1.2

1.6

2.0

PCB Color

Green

Purple

Red

Yellow

Blue

White

Black

Silkscreen

White

Surface Finish

HASL(with lead)

LeadFree HASL

ENIG

High-spec Options

Outer Copper Weight

1 oz

2 oz

Via Covering

Tented

Untented

Plugged

Epoxy Filled & Capped

Copper paste Filled & Capped

Board Outline Tolerance

±0.2mm(Regular)

±0.1mm(Precision)

Confirm Production file

No

Yes

Remove Order Number

No

Yes

Specify a location

Flying Probe Test

Fully Test

Gold Fingers

No

Yes

Castellated Holes

No

Yes

Charge Details

Engineering fee

\$4.00

Via Covering

\$0.00

Remove Order Number

\$1.52

Surface Finish

\$0.00

Board

\$4.00

Build Time

PCB :

3-4 days

\$0.00

Calculated Price

\$9.52

Get Special offer by EasyEDA project

Additional charges may apply for special cases

SAVE TO CART

Shipping Estimate

\$7.90

Global Standard Direct Line

12-16 business days

Weight

0.30kg

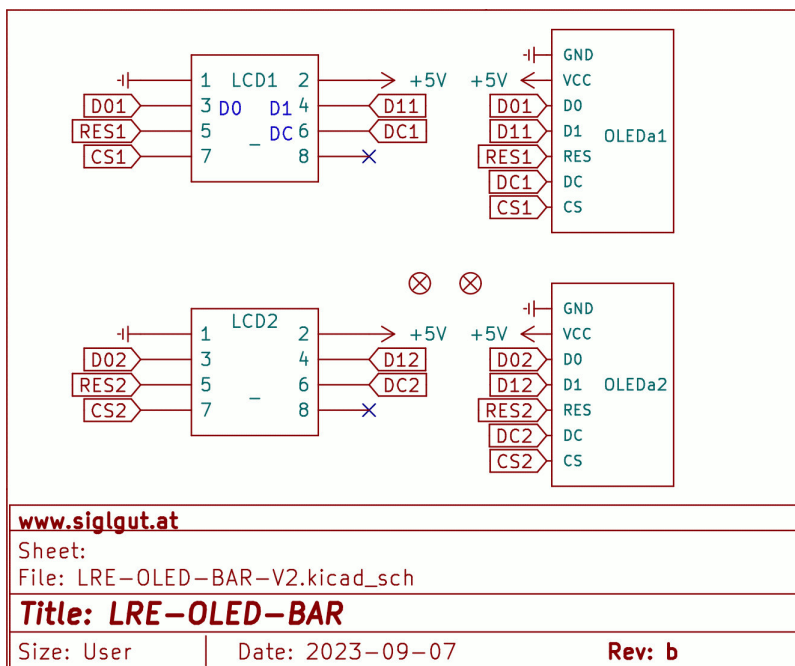
If you use EuroPacket as shipping method you will pay 26€ / thats incl import duty and taxes!

Hardware Requirements

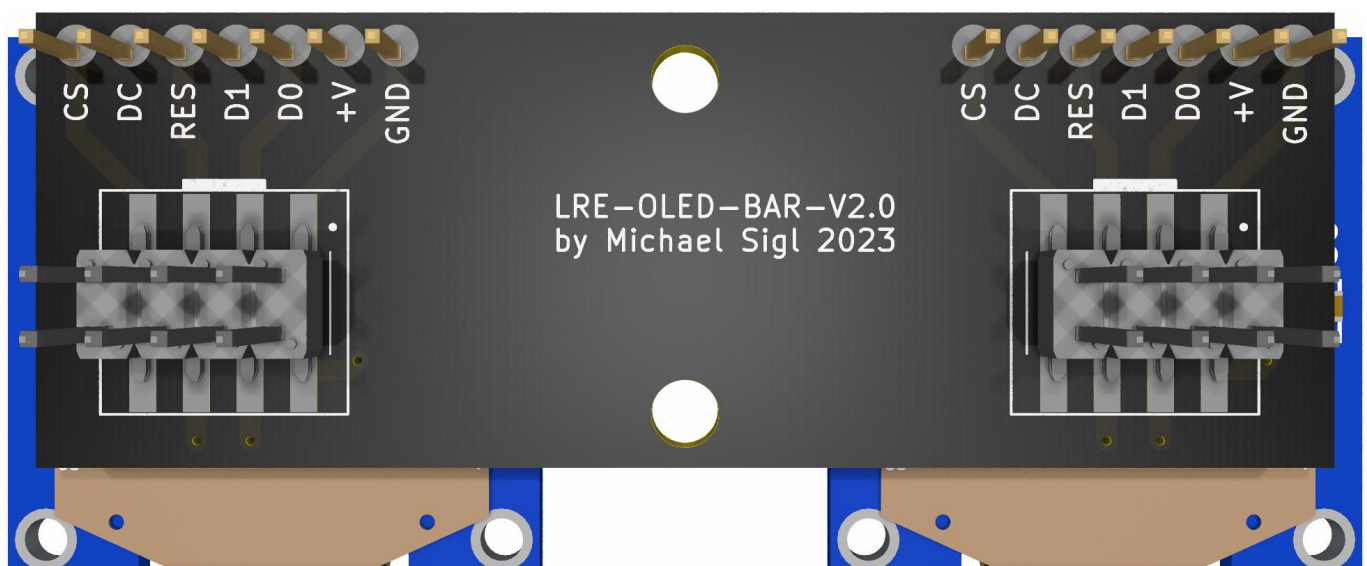
- [aMIOS32-Core](#) to connect too

- [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](#)

Schematic



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](#)

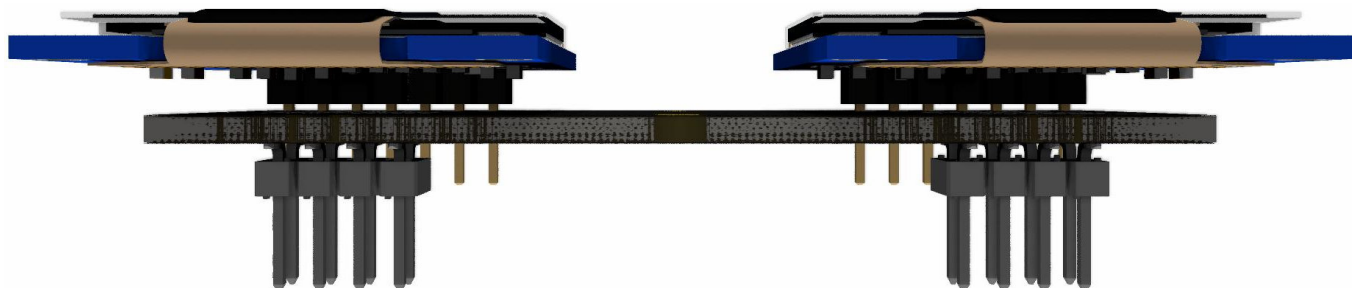
2x 0.96" SSD1306 Screens 7Pin Variant! i recommend white ones, order 2 extras because you might have faulty ones because of Heat-Soldering Damage and replacement for later repair.. [Ali express](#)

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 paid 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-2xlr5lcd2.zip](#)

I paid 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 & Schematic, UI-Programming, Documentation...

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

From:

<http://www.midibox.org/dokuwiki/> - **MIDIbox**

Permanent link:

<http://www.midibox.org/dokuwiki/doku.php?id=lre-oled-bar2>

Last update: **2023/09/12 14:24**

