

LRE8x2 096 SSD1306-BAR for Eurorack



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 Sigl > www.siglut.at



4x PCBs on one 100x100mm

there is no V-Groove, you have to cut it on the marking groove it on top and back, with a new sharp cutter, do it several times, then break it



With this Method you pay for 20 PCBs 8€ all inclusive to EU-Austria

So you can Stuff 5 LRE8x2 with this.

Here are the gerberfiles for production - testet on JLCPCB

[lre-oled-eva-gerber.zip](#)

Hardware Requirements

- a MIOS32 Core to connect too
- Soldering Iron - with a Dip that can Handle Thruhole-Parts, solder Paste...
- LRE8x2 for its nature use

Schematic



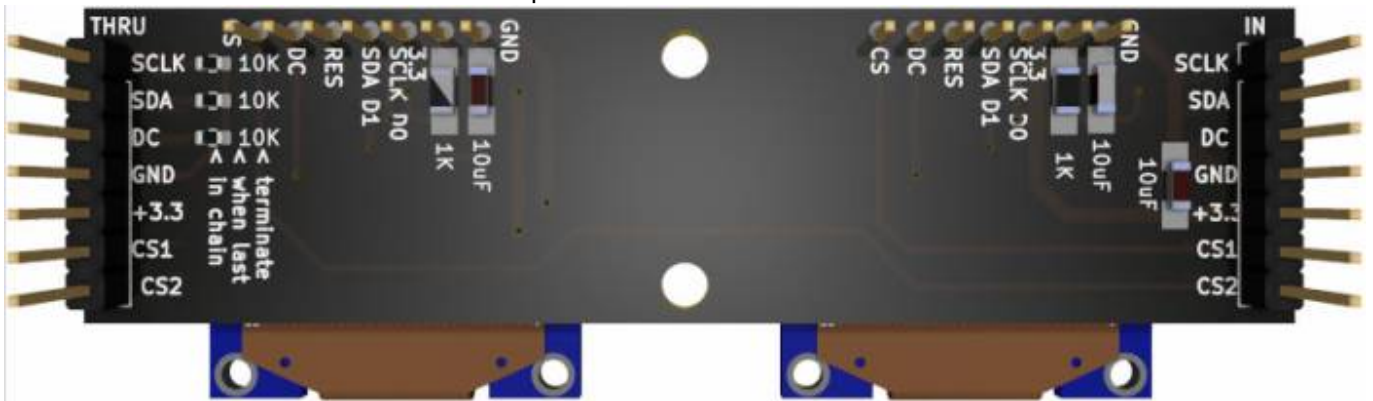
Full Schematic:
[lre-oled-bar-schematic.pdf](#)

Building

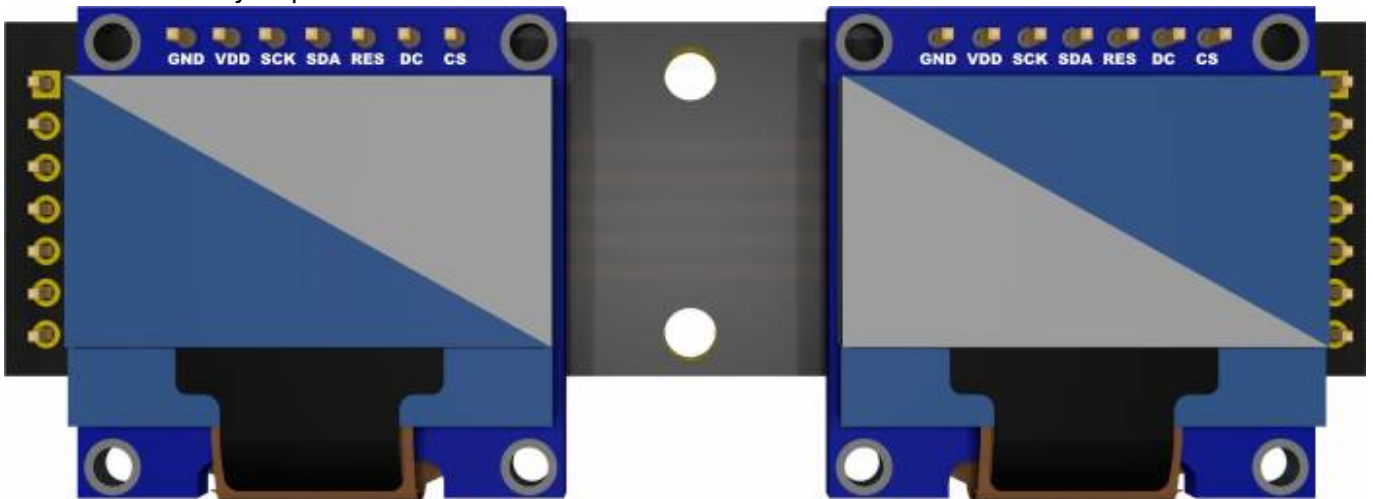
There are 1Row 7Pin headers (2.54mm pitch) on the Backside of the PCB

The Values are printet on the PCB. Following Quantity is for 4 PCBs:

- 8x 1K 1208 SMD Resistors
- 12x 10uF 1208 Capacitors (non polarized)
- 8x 0.96" SSD1306 Screens
- 3x 10K 0603 SMD Resistors which are optional



On the Frontside you put in the Screens



BOM LCSC

these are the parts which must be handsoldered

Comment	Designator	Footprint	LCSC Part Number	Lot
ULN2003ADRW	Q1-Q3	SOIC-18_300mil	C9683	3
PEC11R-4015F-S24	ENC1-ENC5	tht	C143789	5
Micromatch-2x5	LCDi1,LCDo1,Jo89,Jo89	tht	C590954	4
Switch	S1	tht	C273513	1

To Do

nothing- its the first protypte

Community users working on it

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

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

From:

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

Permanent link:

<https://www.midibox.org/dokuwiki/doku.php?id=lre-oled-bar&rev=1642043588>

Last update: **2022/01/13 03:13**

