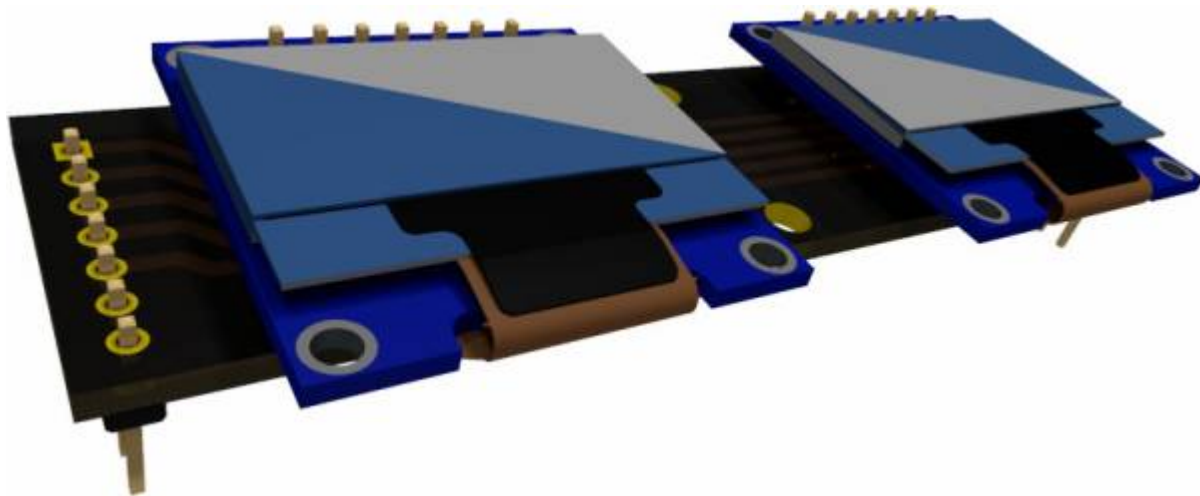


LRE8x2 096 SSD1306-BAR for Eurorack

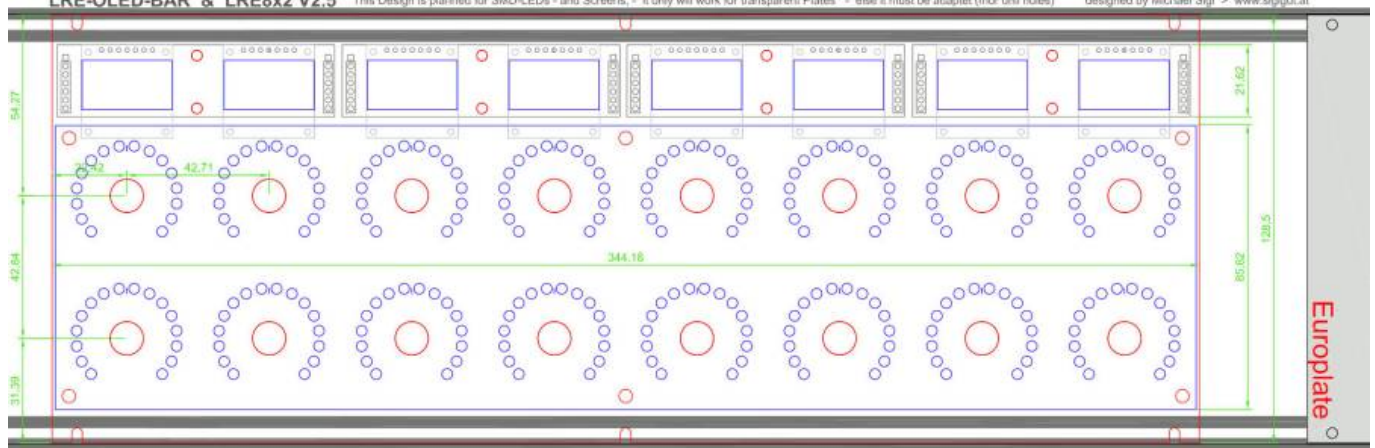


Eurorackpanel;

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 (more drill holes)

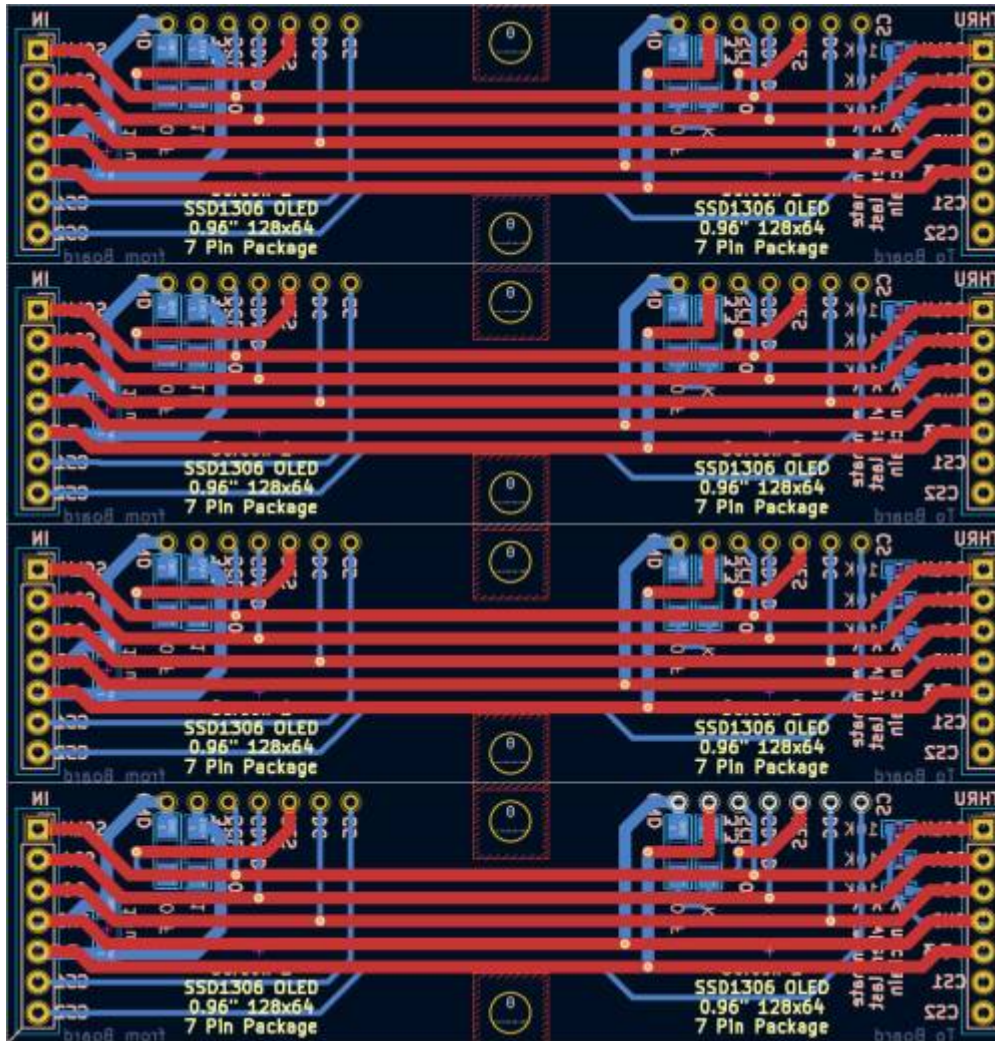
designed by Michael Sigi > www.sigicut.at



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

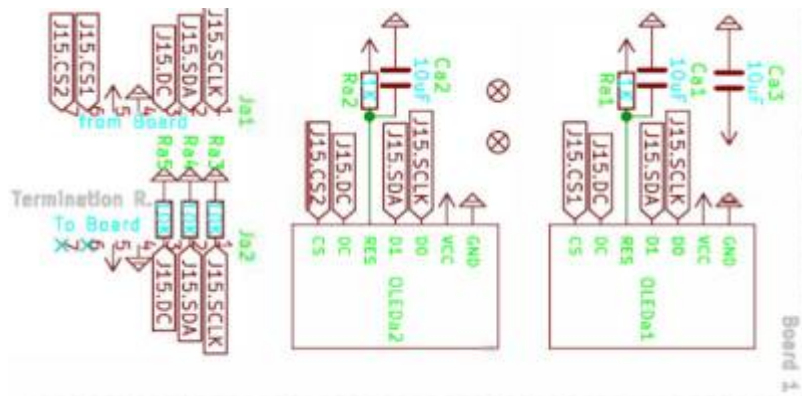


With this Method you pay for 20 PCBs 8€ all inclusive to EU-Austria
 So you can Stuff 5 LRE8x2 with this.

Hardware Requirements

- a MIO32 Core to connect too
- Soldering Iron - with a Dip that can Handle Thruhole-Parts, solder Paste...
- LRE8x2 for its nature use

Schematic



Full Shematic:

Ire-oled-bar-schematic.pdf

Building

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

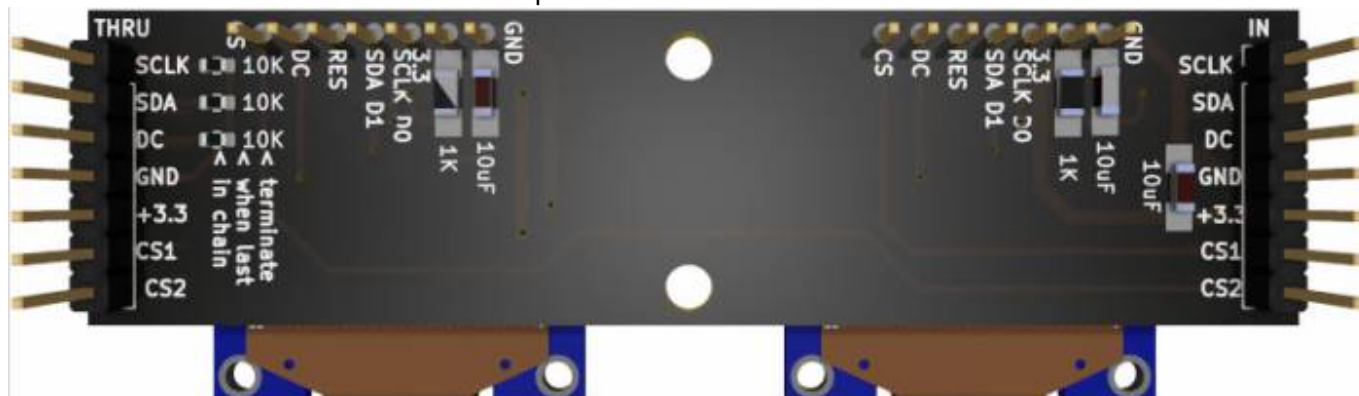
The Values are printet on the PCB. Following Quantity is for 4 PCBs:

8x 1K 1208 SMD Resistors

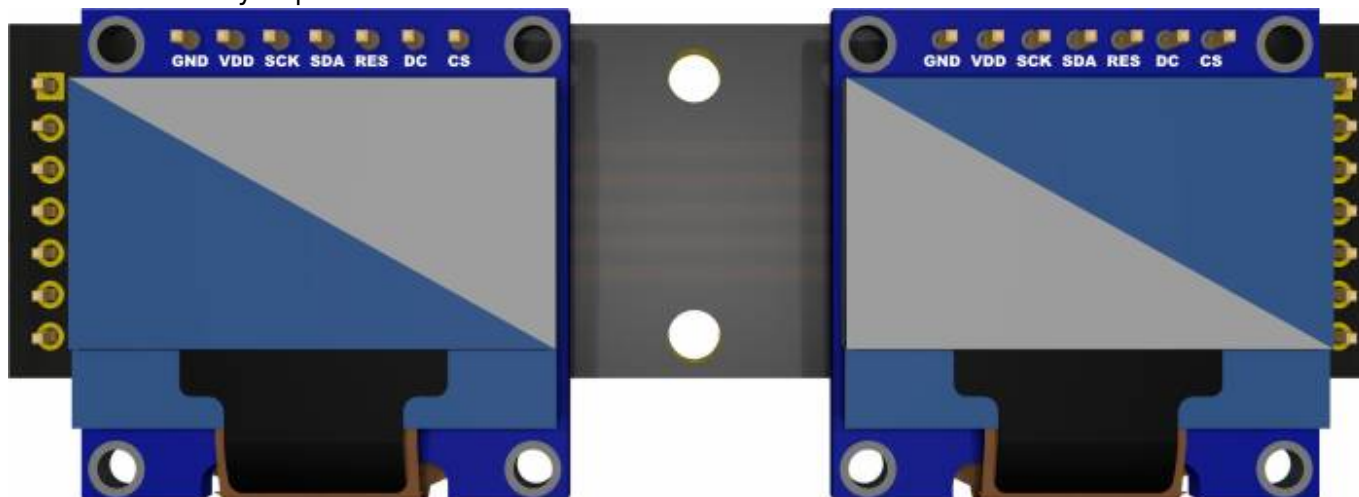
12x 10uF 1208 Capacitors (non polarized)

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,ji89,jo89	tht	C590954	4
Switch	S1	tht	C273513	1

S1 can be stuffed with: Matias, CherryMX, MEC-3FTH9, TL1265

BOM AliExpress

[2xSSD1306-7Pin](#)

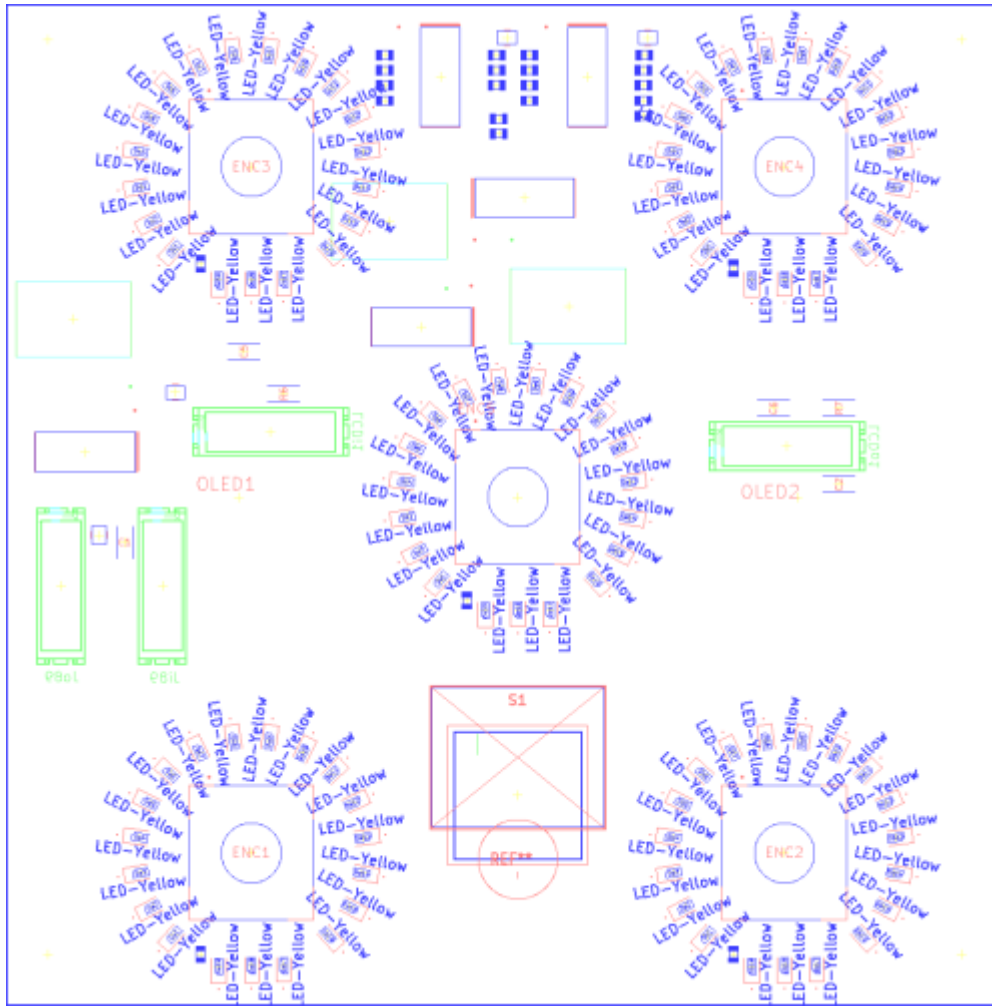
BOM LCSC

these are the parts which are presoldered by the Pick and Place Machine

Comment	Designator	Footprint	LCSC Part Number
47uF	C1,C2	1206	C96123
100nF	C3,C4,C7,C8	0805	C49678
10uF	C5,C6	1206	C13585
LED-Yellow	Da1,Db1,Dc1,Dd1,De1-Da19,Db19,Dc19,Dd19,De19	0603	C72038
180	R1-R5	0603	C22828
1K	R6,R7	1206	C4410
10k	R8-R25	0603	C25804
74HC595	U1-U3	SOIC-16	C5947
74HC165	U4,U5	SOIC-16	C5613

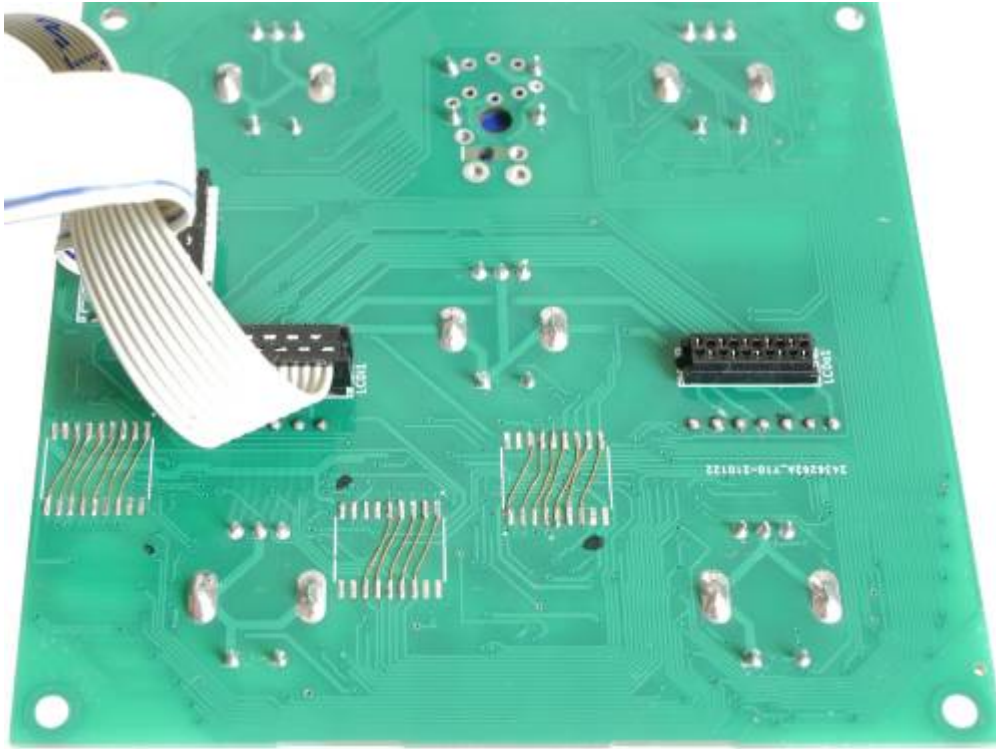
+ Ribbon Cables for example (MOUSER):
710-63911015521CAB|1

PART Locations



To Do

making Revision 2, because in 1 the Transistor-Array-Footprint is wrong and had to bridged



Community users working on it

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

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

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Last update: **2022/01/13 03:10**

