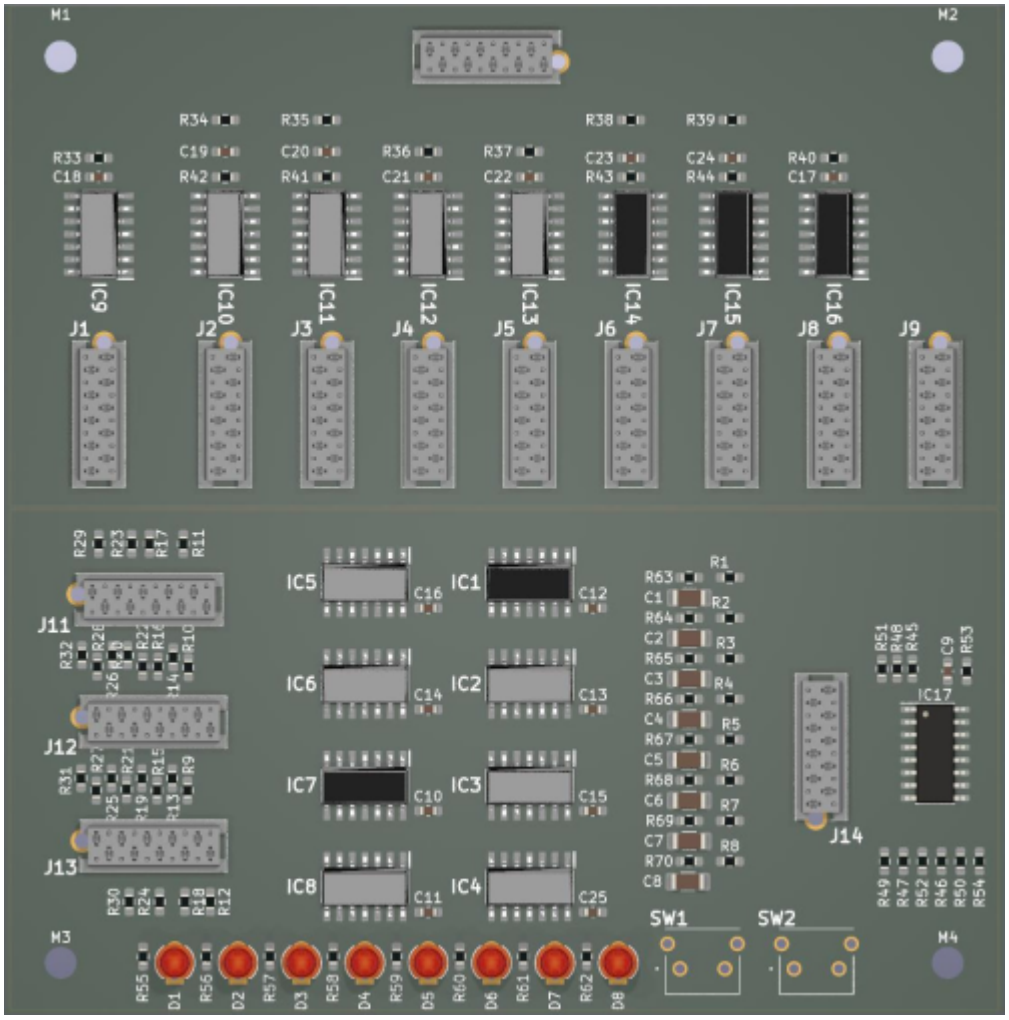
# SRIO-ROUTER




*** Route 1 Userinterface to 8 Cores**
*** So you save space in your Eurorack**
*** So you save money**
*** Route SRIO (J89 aka DIN and DOUT)**
*** ROUTE 8x OLED Screens (with a extra expansion PCB…)**
*** No Support for AIN**

ready for Pick and Place
–all Parts are presoldered except:

- 2x Switches
- 8x LEDs
- Micromatch Headers

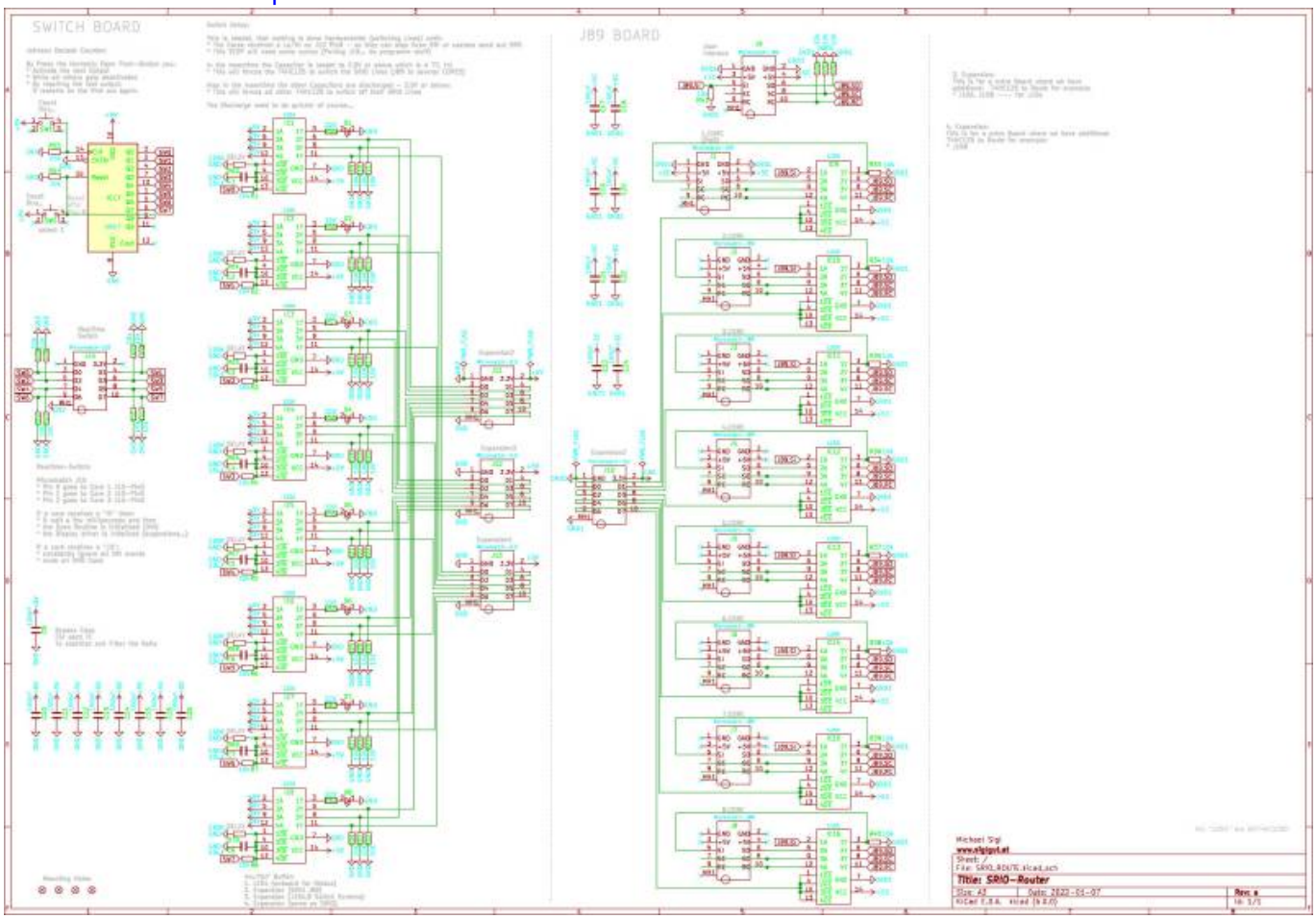
# Hardware Requirements

- up to 8 STM32F4 compatible MIOS32 Cores (J89, J15AB)
- Soldering Iron - with a Dip that can Handle Thruhole-Parts, solder Paste…

- dont forget the Micromatch connectors, and Ribbon cables

# Shematic

srio-router-shematic.pdf




# Building

The Design is optimized for Pick and Place > all SMD Parts are on the Top-PCB
The Rest is Thruhole > easy handsolder

now waiting for Presoldered PCBs

## BOM

these are the parts which must be handsoldered
**14-24x Micromatch Header 2x5p:**
Mouser: 571-12150790
Reichelt: MPE 369-1-010
LCSC: C590954

**14-24 Micromatch Plug 2x5p or even more...:**
Mouser: 571-1-2178712-0
Reichelt: MPE 372-1-010

**2x Tact Switch:**
Mouser: 113-DTSA-65N-V
Reichelt: TASTER 3305B

**8x 3mm LED Thruhole ca 400mcd:** Mouser: 859-LTL1CHJETNN
Reichelt: EVL 1224-10SURC

**Flat-band-Cable - 30m !!! x 40pins...last forever:**
Mouser: 617-09180407001

## 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 |

## PART Locations

# To Do

# Community users working on it

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

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

From:
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**https://www.midibox.org/dokuwiki/doku.php?id=srio-router&rev=1641623987**

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