

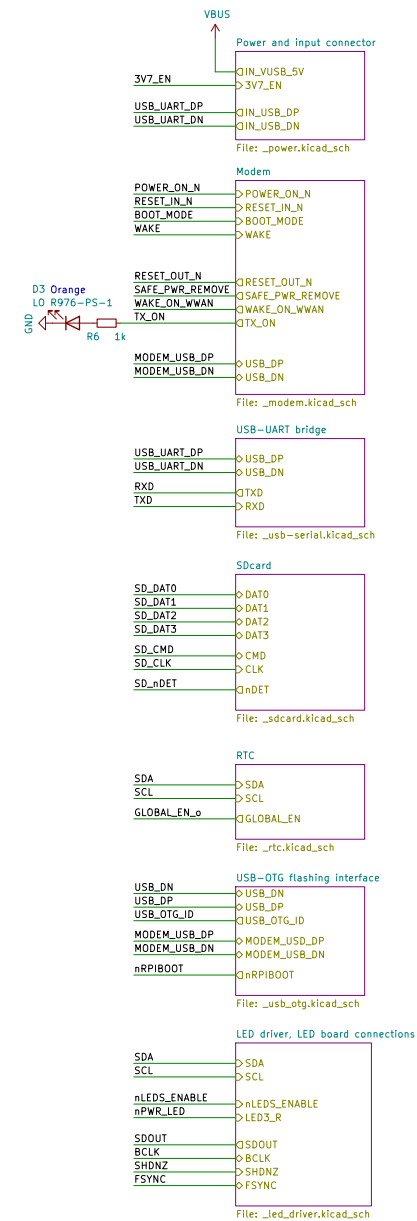


- ### Clearance holes for self tappers

- H1
MountingHole_3.2mm_M3_DIN965
- H2
MountingHole_3.2mm_M3_DIN965
- H3
MountingHole_3.2mm_M3_DIN965
- H4
MountingHole_3.2mm_M3_DIN965



3mm mated height, 1.5mm clearance under CM4 module

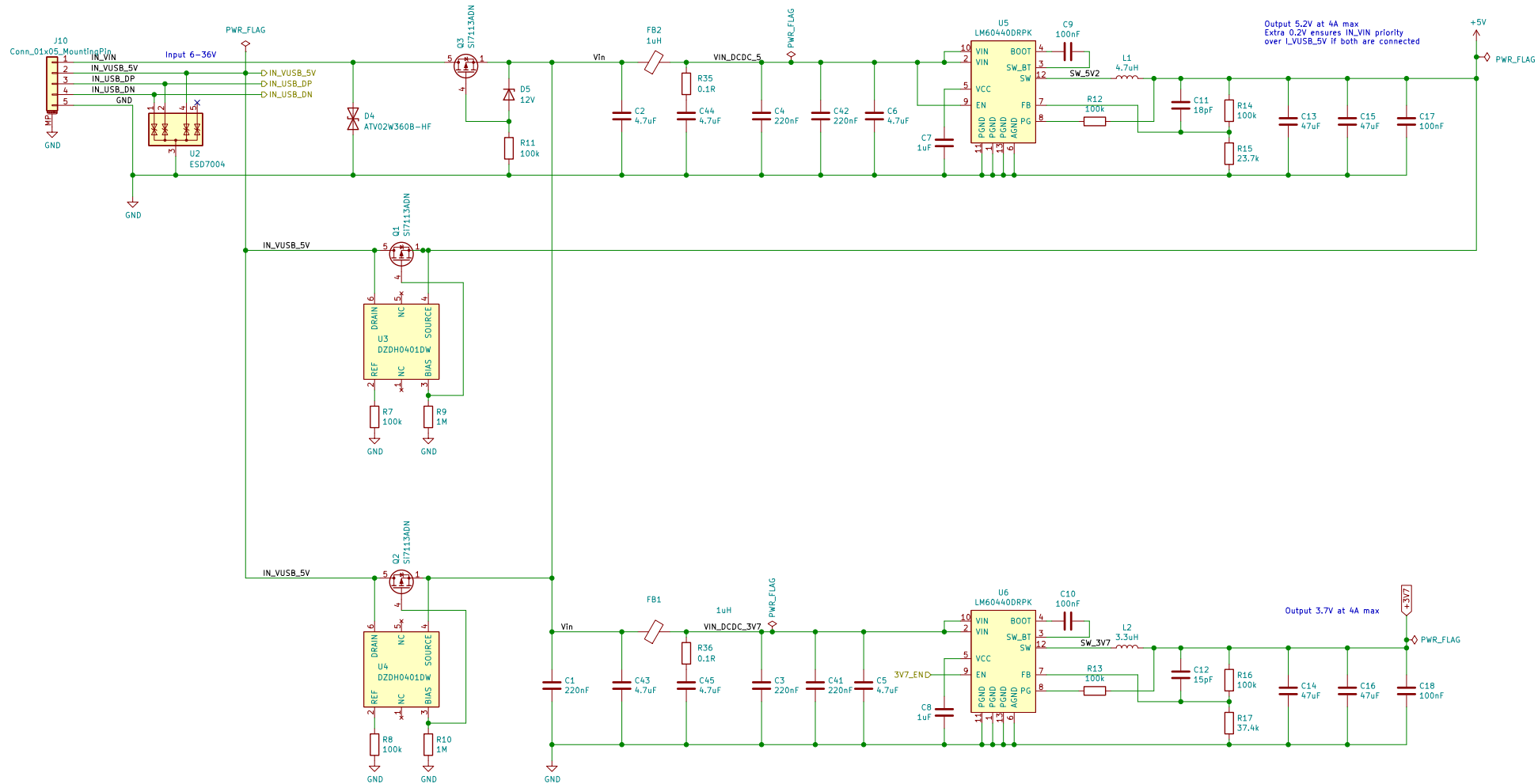


I2C addresses

```
PCMD3180 PDM-I2S converter : 100 1100 (0x4C)
DS3231N real time clock   : 110 1000 (0x68)
PCA9685 PWM LED driver    : 110 0110 (0x66)
```

Sheet: /
File: safeproject-main-r2.kicad_sch

Title:		
Size: A3	Date:	Rev:
KiCad E.D.A. kicad 5.99.0-1.20210329git38c849b.fc33		Id: 1/8

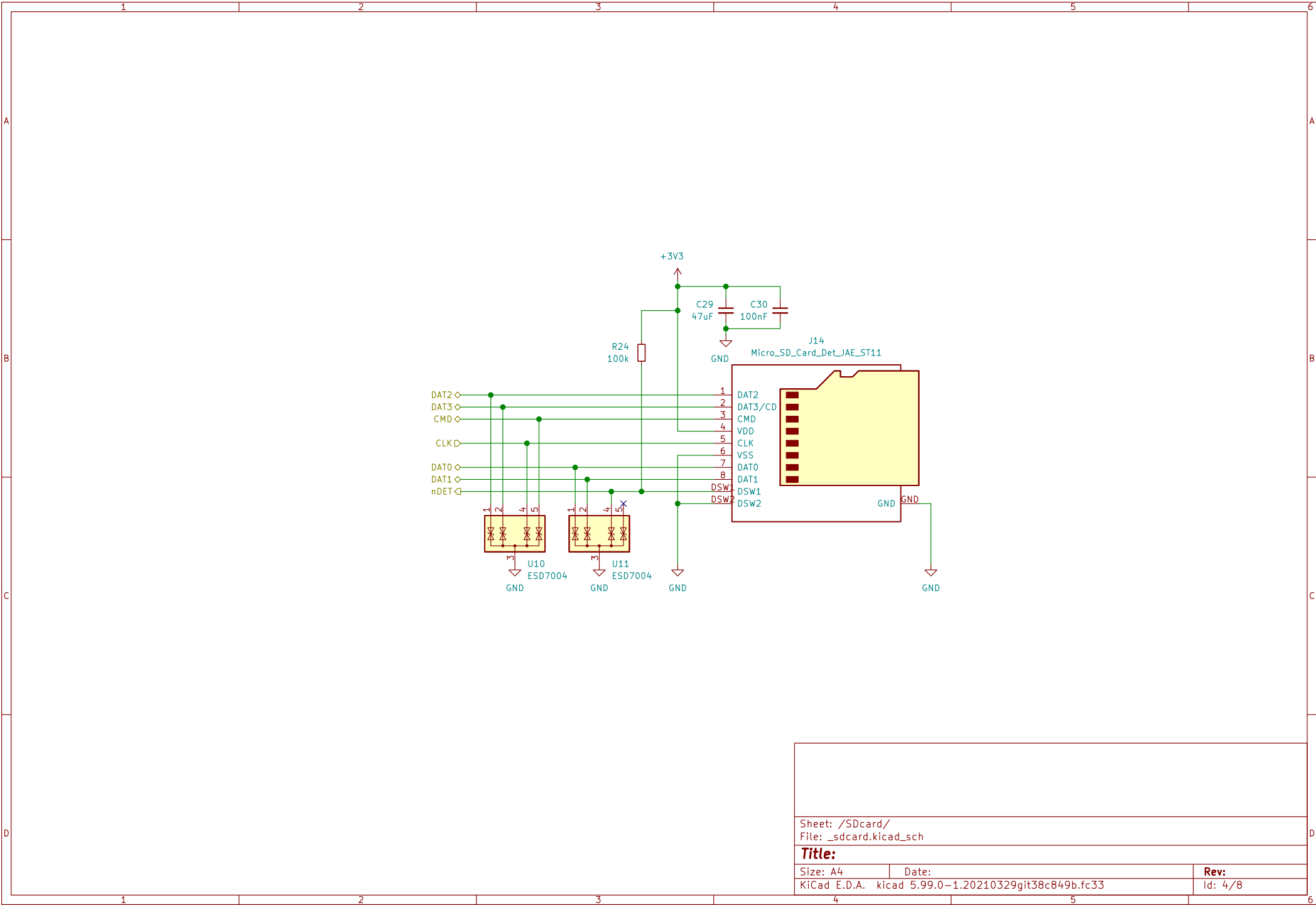


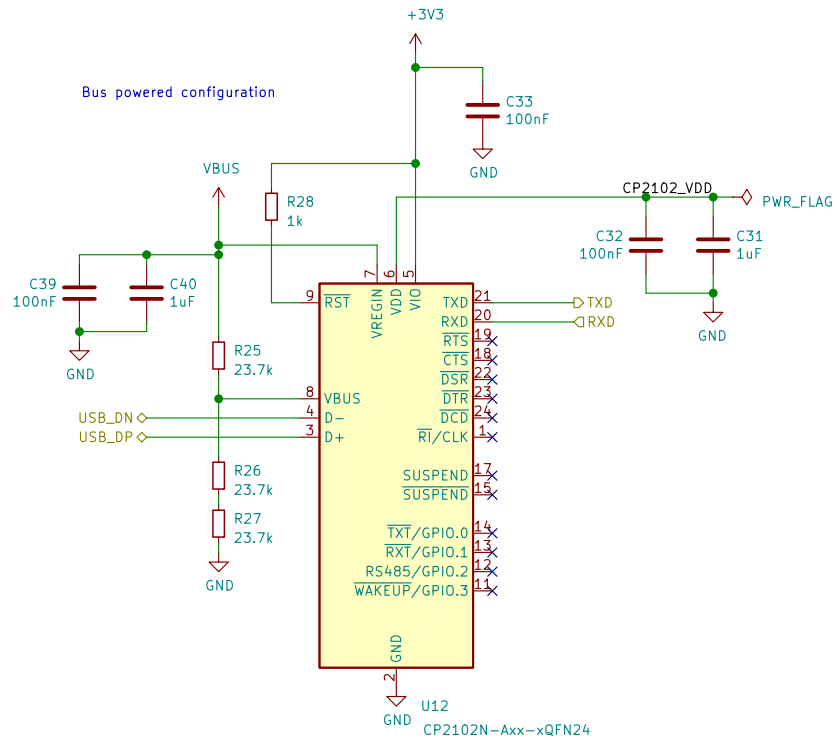
Sheet: /Power and input connector/
File: _power.kicad_sch

Title:

Size: A3 Date: KICad E.D.A. kicad 5.99.0-1.20210329git38c649b.fc33

Rev: Id: 2/8





Sheet: /USB-UART bridge/
File: _usb-serial.kicad_sch

Title:

Size: A4

Date:

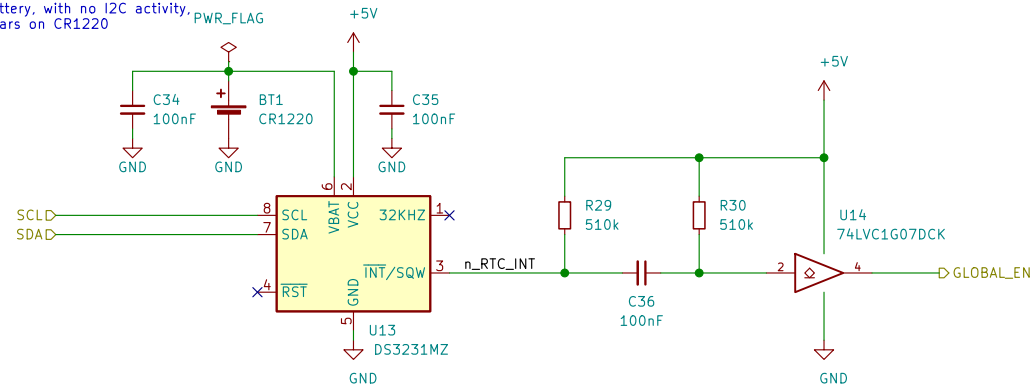
KiCad E.D.A. kicad 5.99.0-1.20210329git38c849b.fc33

Rev:

Id: 5/8

Normally run from 5V because 3.3V is off when Pi is sleeping

Running only on battery, with no I2C activity, PWR_FLAG
I_{batt} = 2uA = 2 years on CR1220



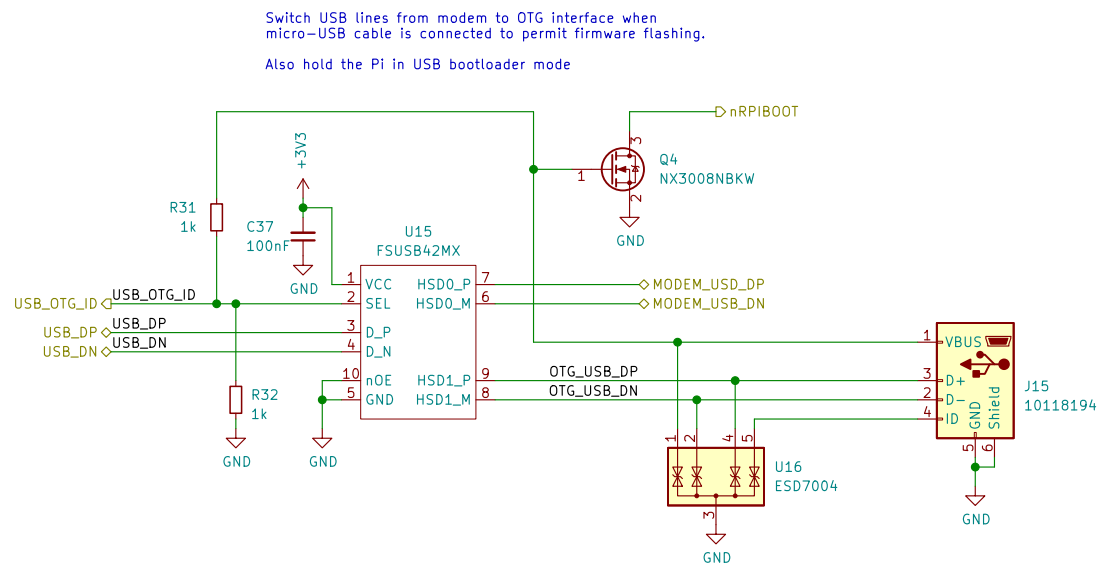
Generates a pulse in the 10's of ms range.
GLOBAL_EN requires minimum pulse of 1ms to start the CM4

Sheet: /RTC/
File: _rtc.kicad_sch

Title:

Size: A4 Date: KiCad E.D.A. kicad 5.99.0-1.20210329git38c849b.fc33

Rev:
Id: 6/8



ID not used, but connected to TVS just in case

Sheet: /USB-OTG flashing interface/
File: _usb_otg.kicad_sch

Title:

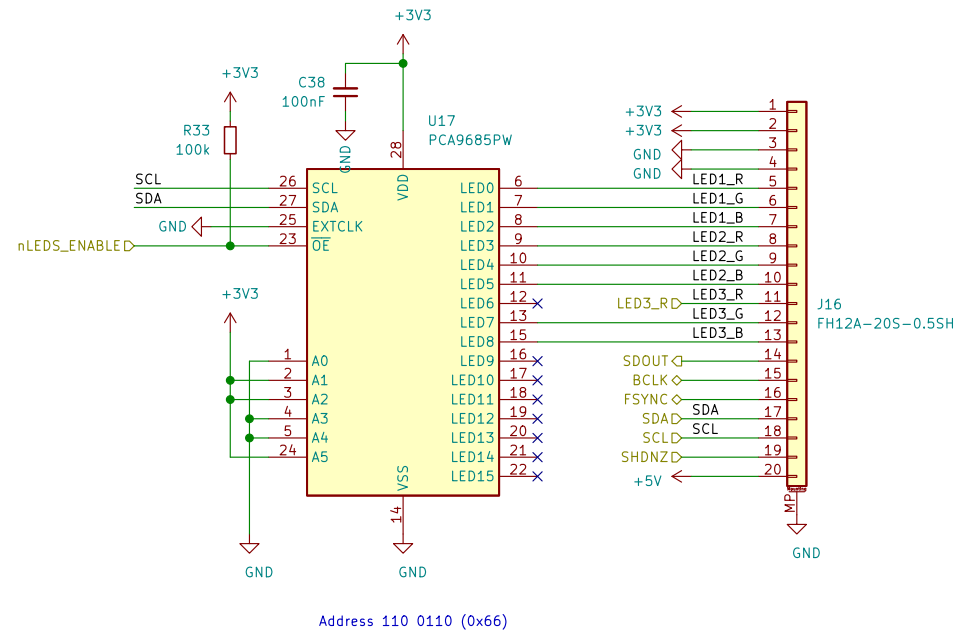
Size: A4

Date:

KiCad E.D.A. kicad 5.99.0-1.20210329git38c849b.fc33

Rev:

Id: 7/8



Sheet: /LED driver, LED board connections/
File: _led_driver.kicad_sch

Title:

Size: A4 Date: Kicad E.D.A. kicad 5.99.0-1.20210329git38c849b.fc33

Rev: Id: 8/8