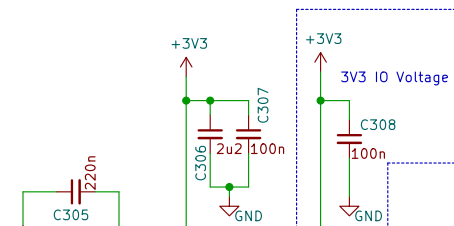
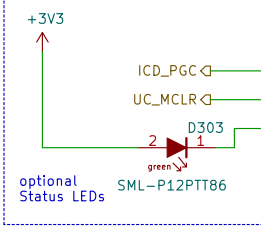
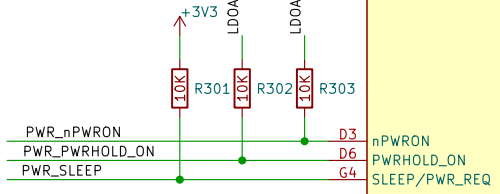


The deviceaddressfor the STANDARD-I2C interfaceis set to 0101101.



CONFIG2=0:
alternate Pins usage
CONFIG2=1:
default Pins function

Pin	Signal
15	EN4/DCDC4_SEL
16	EN3/DCDC3_SEL
17	EN2/DCDC2_SEL
18	EN1/DCDC1_SEL



TP308	VD_3P3_LSO
TP309	LDOAO
TP310	VD_2P8

VINDCDC_ANA

VINDCDC4
VINDCDC4
VINDCDC4

SW4

SW4

[illegible][illegible]

- VINDCDC1
- VINDCDC1
- VDCDC1

SW1
SW1

VCON_PWM
VCON_CLK

11/11/2017

[illegible]

VINDCDC3
VDCDC3
SW3

100

VINDCDC2

VDCDC2
SW2
VLD09

VEDOS

VLDO10

[illegible]

LDOAO

```
LD01: 100mA unused
LD02: 100mA unused
LD03: 100mA unused
LD04: 250mA "low noise" (2.5 V) (AVDD)
LD05: 250mA "low noise" unused
LD06: 100mA unused
LD07: 300mA unused
LD08: 100mA unused
LD09: 300mA unused
LD010: 300mA unused
DCDC1: 2500mA (1.2 V) (DVDD)
DCDC3: 1600mA (2.8V) for VINLD04
DCDC2: unused
DCDC4: 2500mA (1.8V) (DOVDD)
```

SHORT LDO Current Limit
LD01, LD02, LD03, LD06, LD08 max. 420mA
LD04, LD05 max. 650mA
LD07 max. 750mA
LD09, LD010 max. 750mA

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Sheet: /power/
File: power.kicad_sch

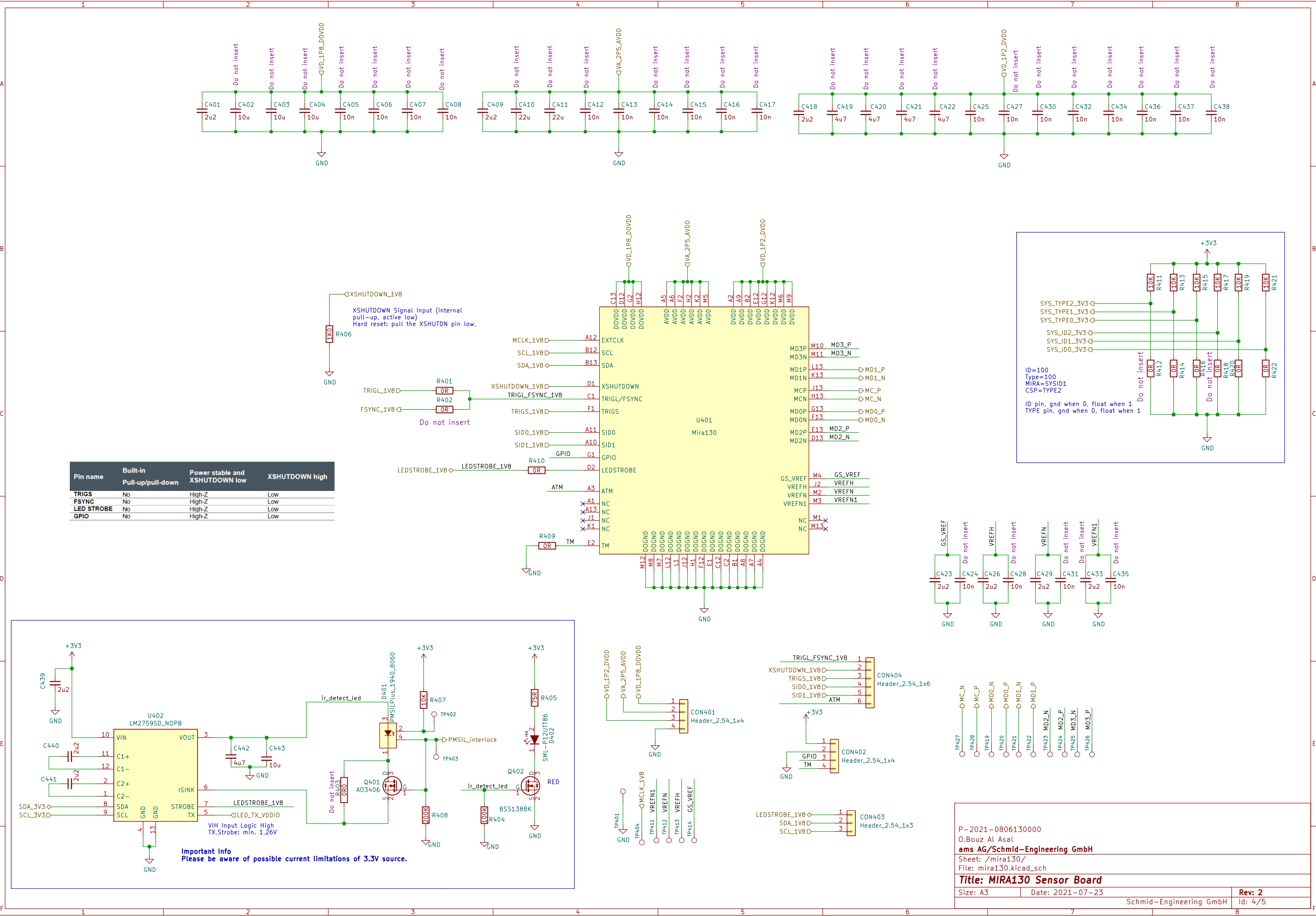
Title: MIRA130 Sensor Board

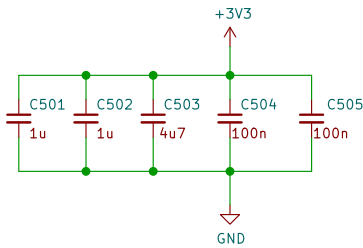
Size: A3

Date: 2021-07-23

Rev: 2

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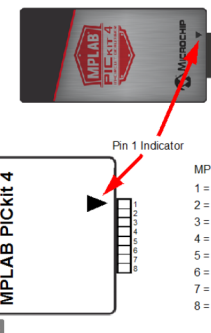
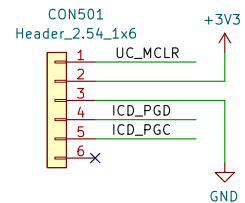
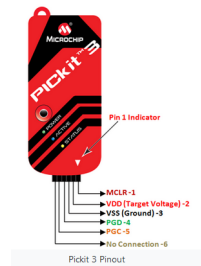
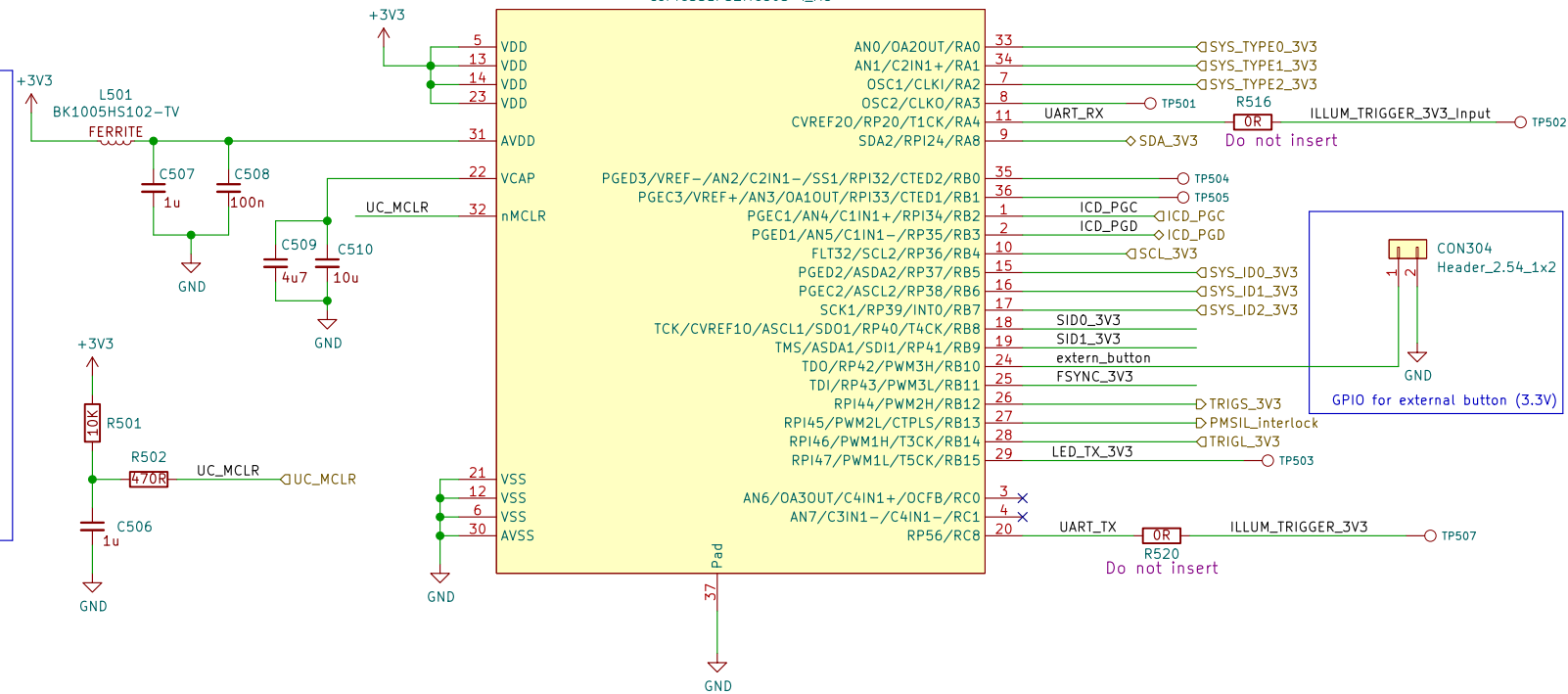


The microcontroller will be used with a standard firmware (same for all sensors) to do the following:

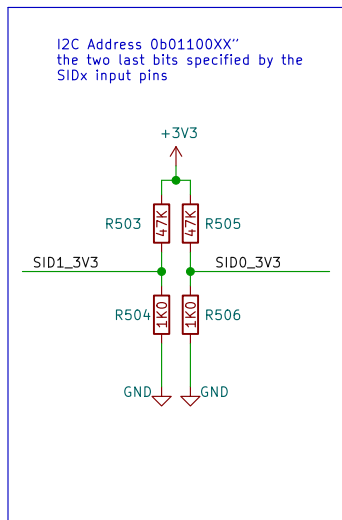
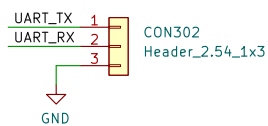
- * Programmable BoardID and serial number
- * User programmable non volatile memory
- * GPIO expander
- * External sync generator (FRAME_REQ and FRAME_TRIGGER)

Important information:

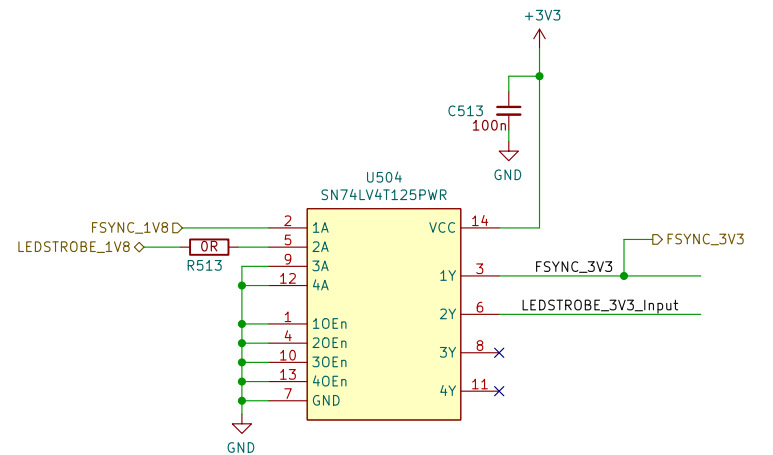
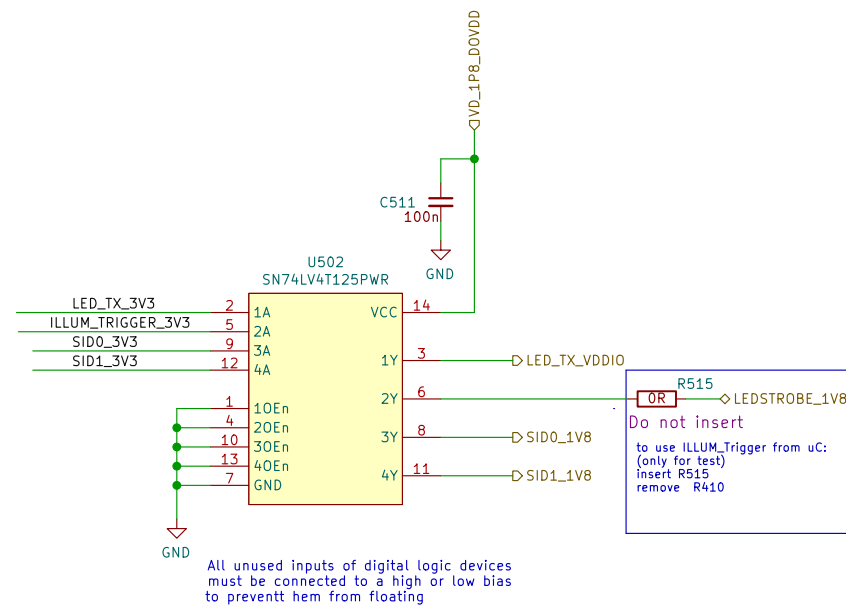
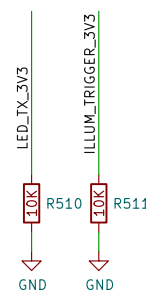
- * The microcontroller is active, even if PMIC is switched off
- * This allows autodetection of connected sensor by the application software



MPLAB PICKIT 4 Pin Description
1 = MCLR
2 = VDD
3 = Ground
4 = PGD
5 = PGD
6 = Do not connect
7 = Unused for ICSP
8 = Unused for ICSP



7-bit I2C bus device address	SID0	SID1
7'h30	Low	Low
7'h31	High	Low
7'h32	Low	High
7'h33	High	High



P-2021-0806130000
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Sheet: /supervisor/
File: supervisor.kicad_sch

Title: MIRA130 Sensor Board

Size: A3 Date: 2021-07-23

Rev: 2

Schmid-Engineering GmbH Id: 5/5