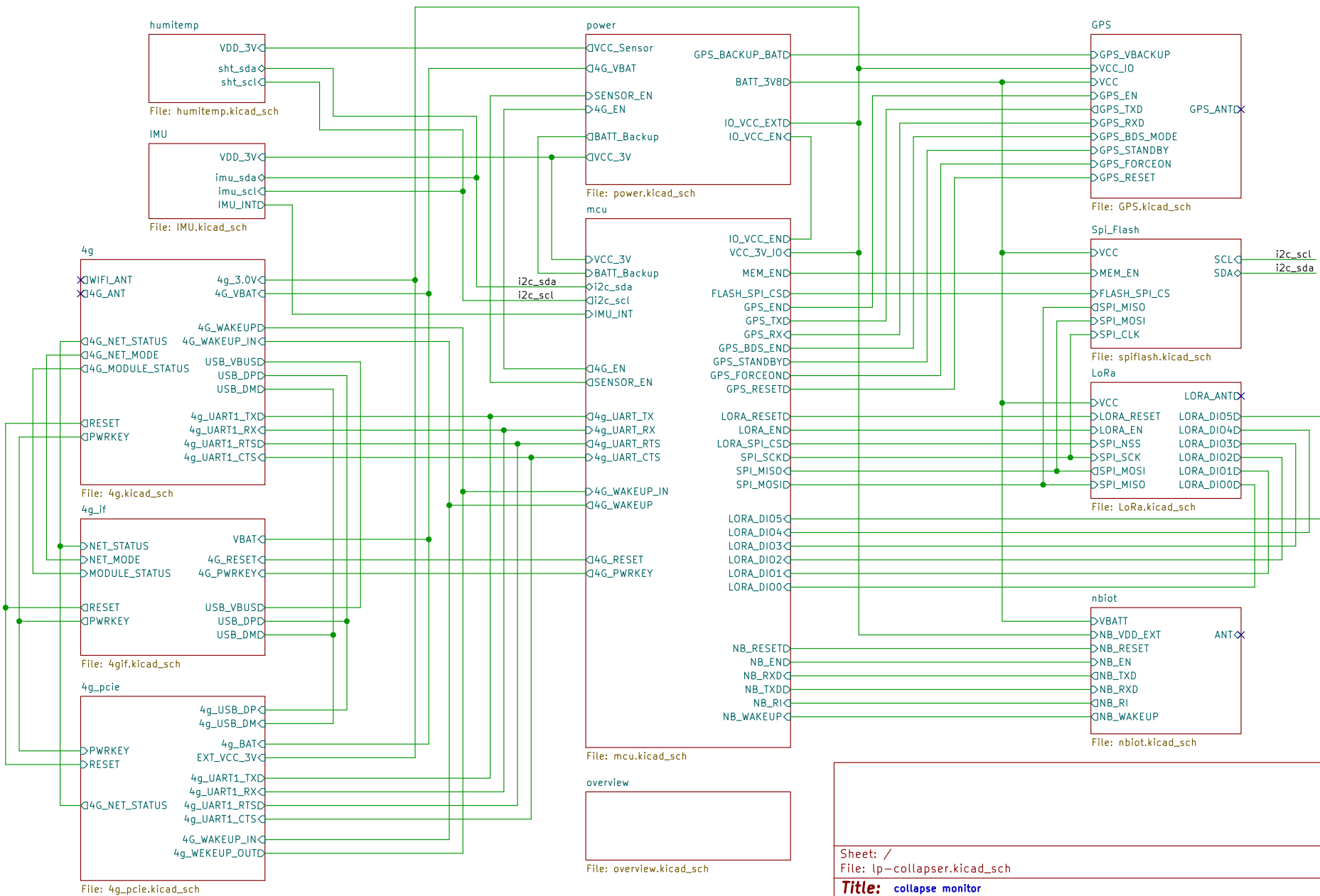


# Low Power Collapse-Monitor



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File: lp-collapse.kicad\_sch

**Title:** collapse monitor

Size: A4 Date: kicad 6.0.5-a6ca702e91-116-ubuntu20.04.1

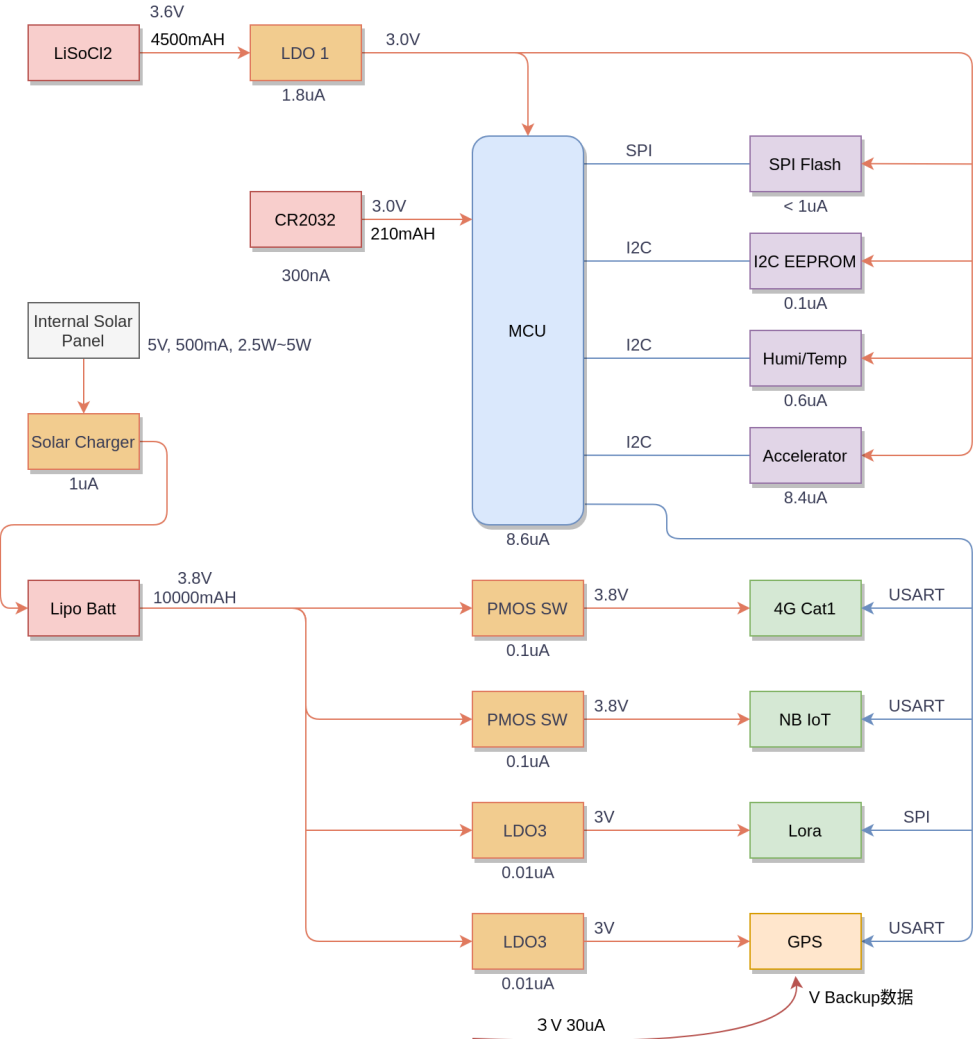
Rev: v0.1  
Id: 1/17

Low Power Collapse Detector

Design Objectives:  
Low power consumption, 1~3 year life  
9-d accelerometer sensing  
humidity temp sensing

12V DC input for test purpose.  
5V USB Input for test purpose.

MCU (STM32L412, L151)



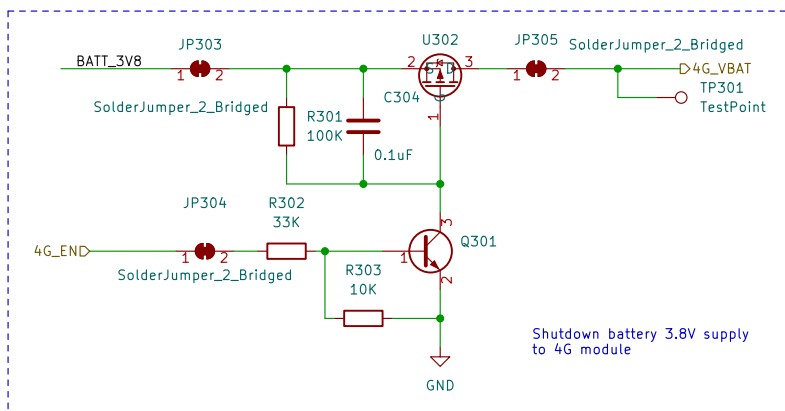
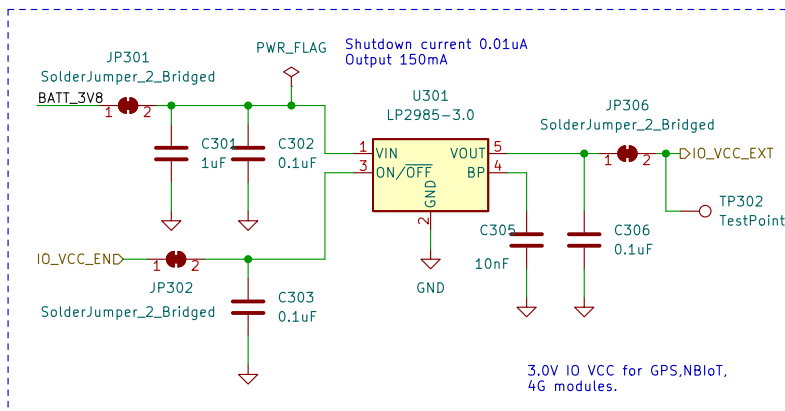
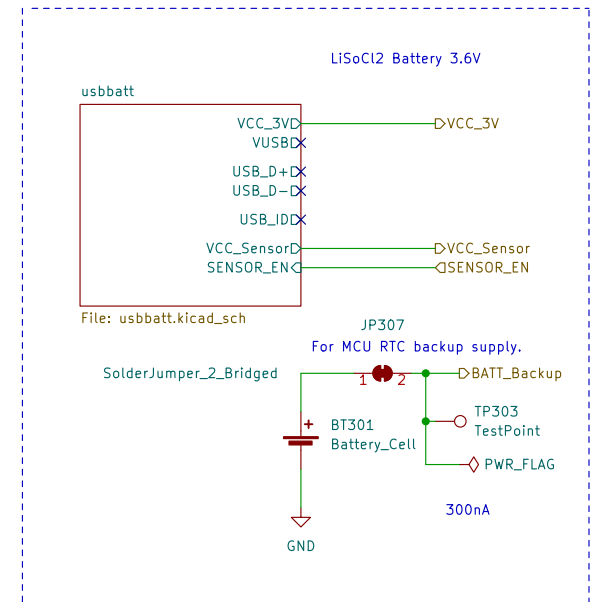
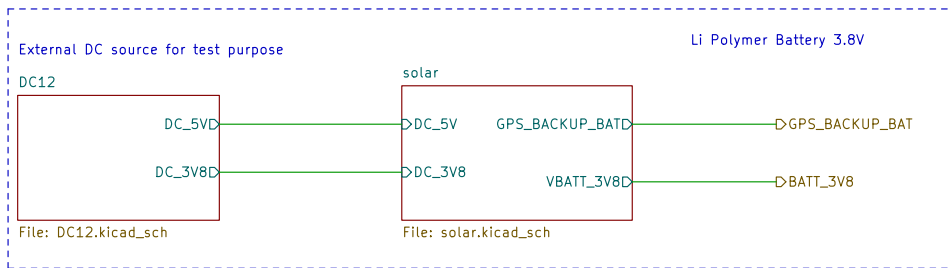
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Date:  
Id: 1/17

Rev:



Sheet: /power/  
File: power.kicad\_sch

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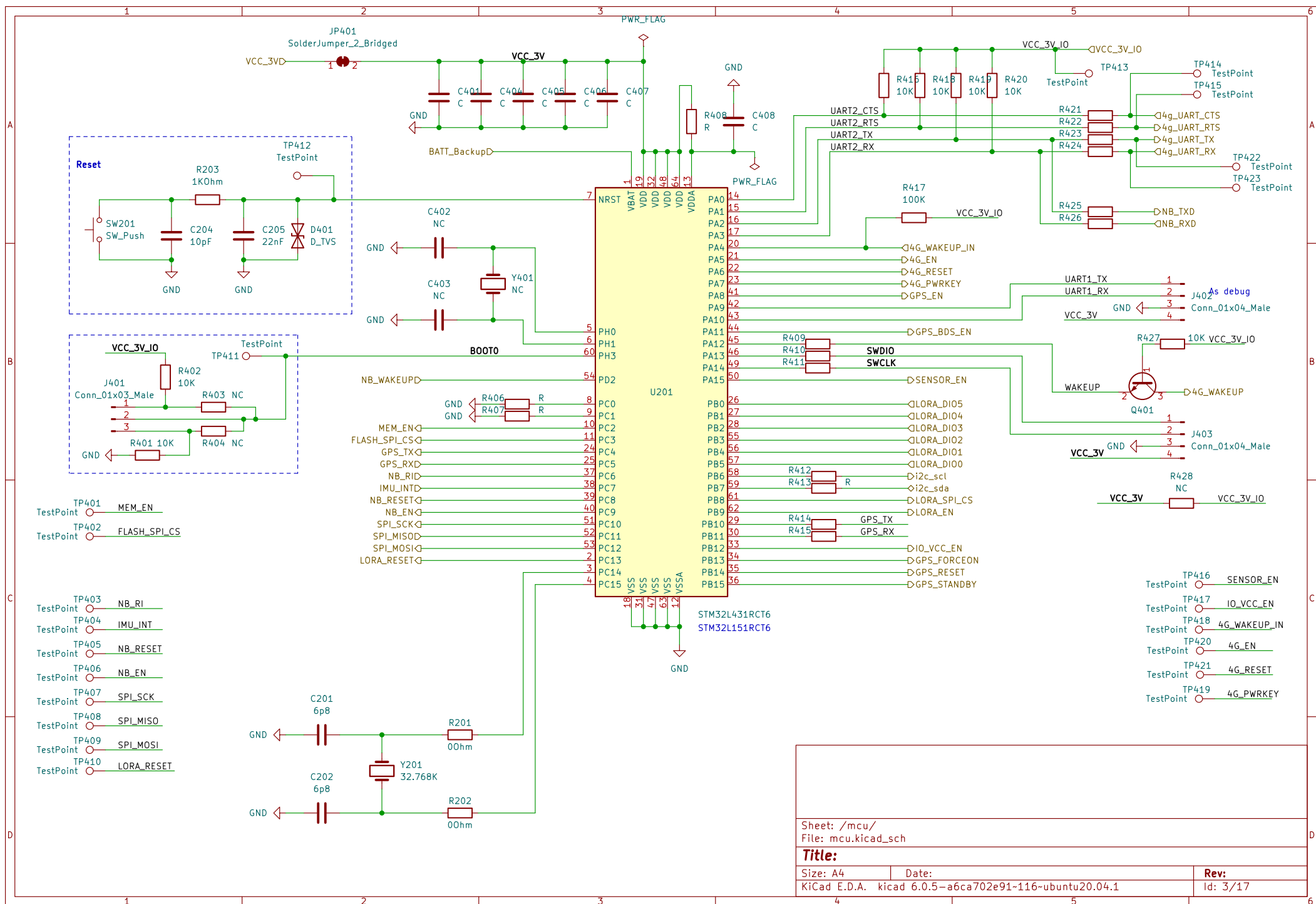
Size: A4

Date:

KiCad E.D.A. kicad 6.0.5-a6ca702e91-116-ubuntu20.04.1

**Rev:**

Id: 2/17



9 axis sensor

JP501  
SolderJumper\_2\_Bridged

VDD\_3VD

1 2

PWR\_FLAG

C501

10nF

C502

0.1uF

TP504  
TestPoint

AD0/SD0 defaults to 0U. This sets the I2C  
address to 0b1101000 (0x68) and leaves the  
AD0/SD0 PTH disconnected.  
Pull high to set address to 0b1101001(0x69).

R503

4K7

R502

4K7

R501

10K

imu\_sda

imu\_scl

CS SPI only

R504

10K

TP501

TestPoint

TP502

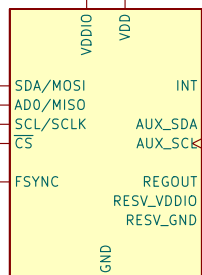
TestPoint

TP503

TestPoint

R505

10K



U501

MPU-9250

IMU\_INT

TP505  
TestPoint

Sheet: /IMU/  
File: IMU.kicad\_sch

**Title:**

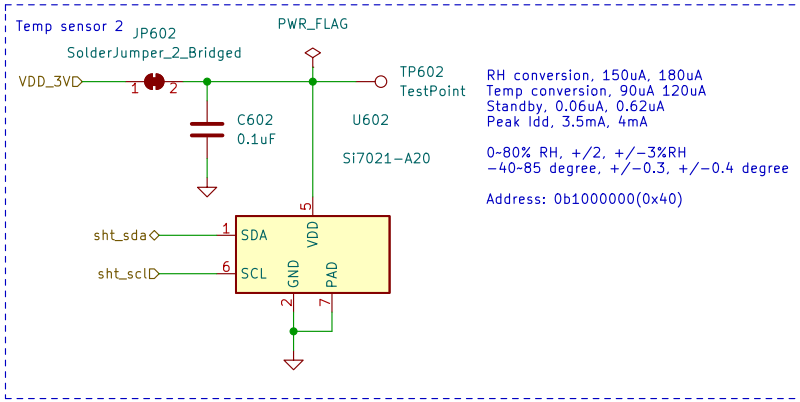
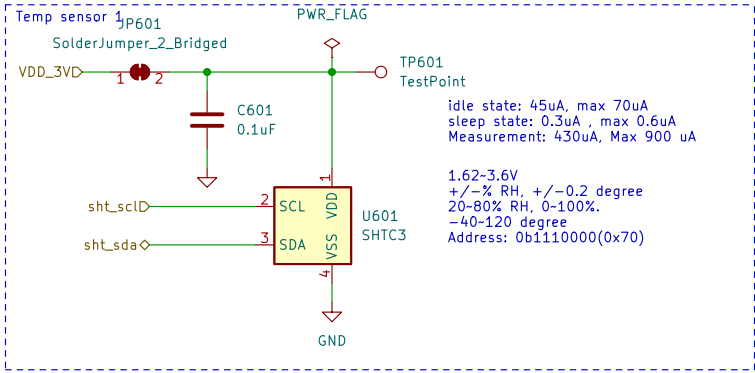
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KiCad E.D.A. kicad 6.0.5-a6ca702e91-116-ubuntu20.04.1

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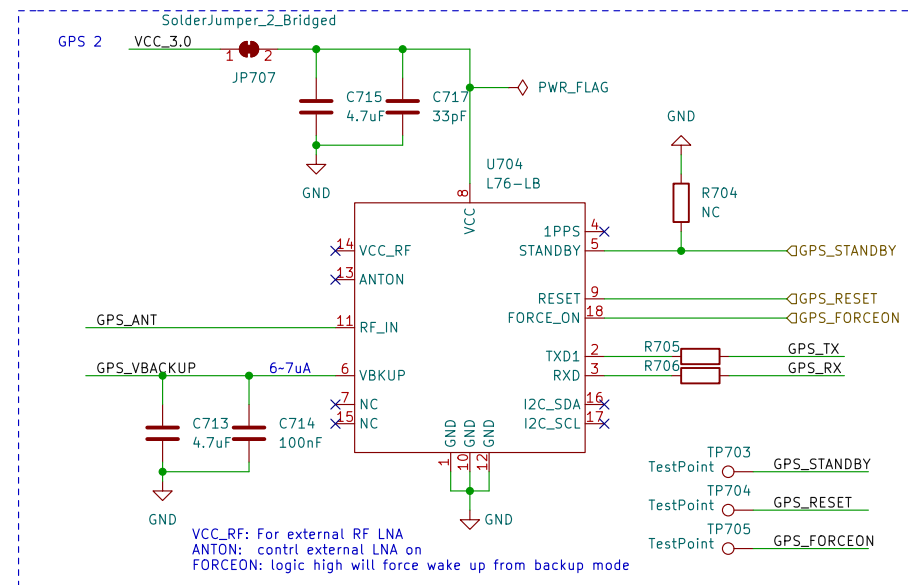
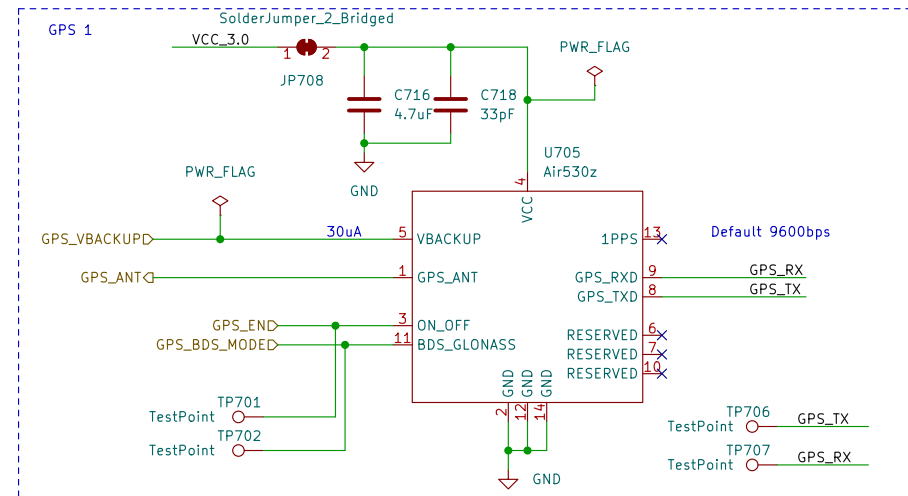
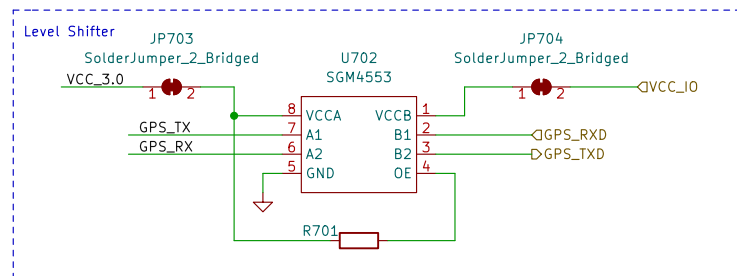
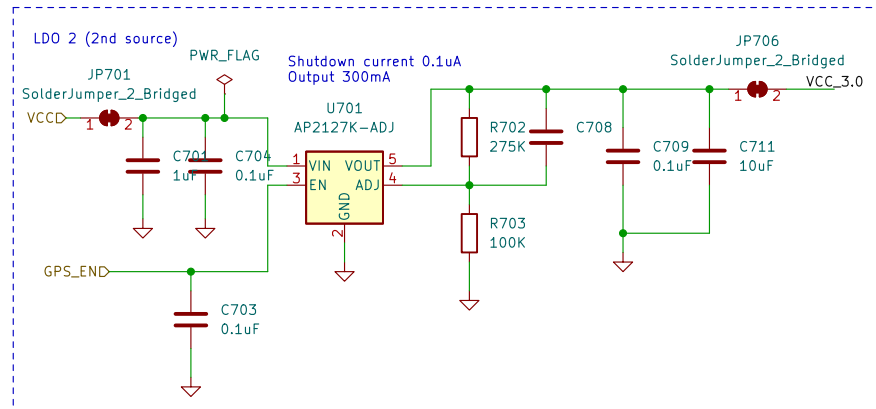
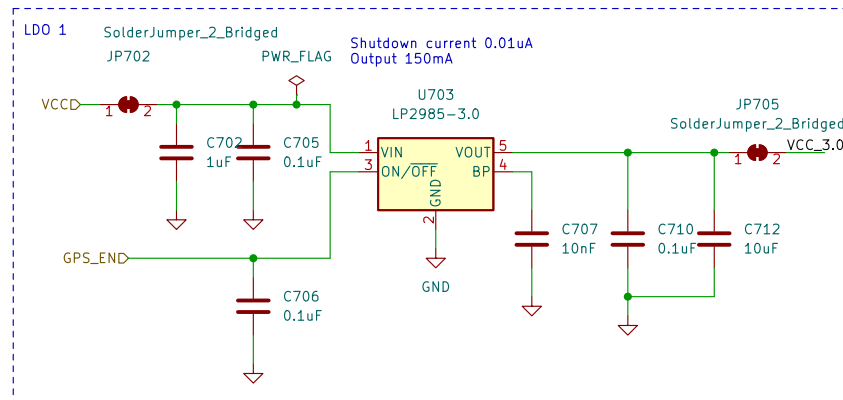


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File: humitemp.kicad\_sch

**Title:**

Size: A4 Date:  
KiCad E.D.A. kicad 6.0.5-a6ca702e91-116-ubuntu20.04.1

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Id: 6/17



Sheet: /GPS/  
File: GPS.kicad\_sch

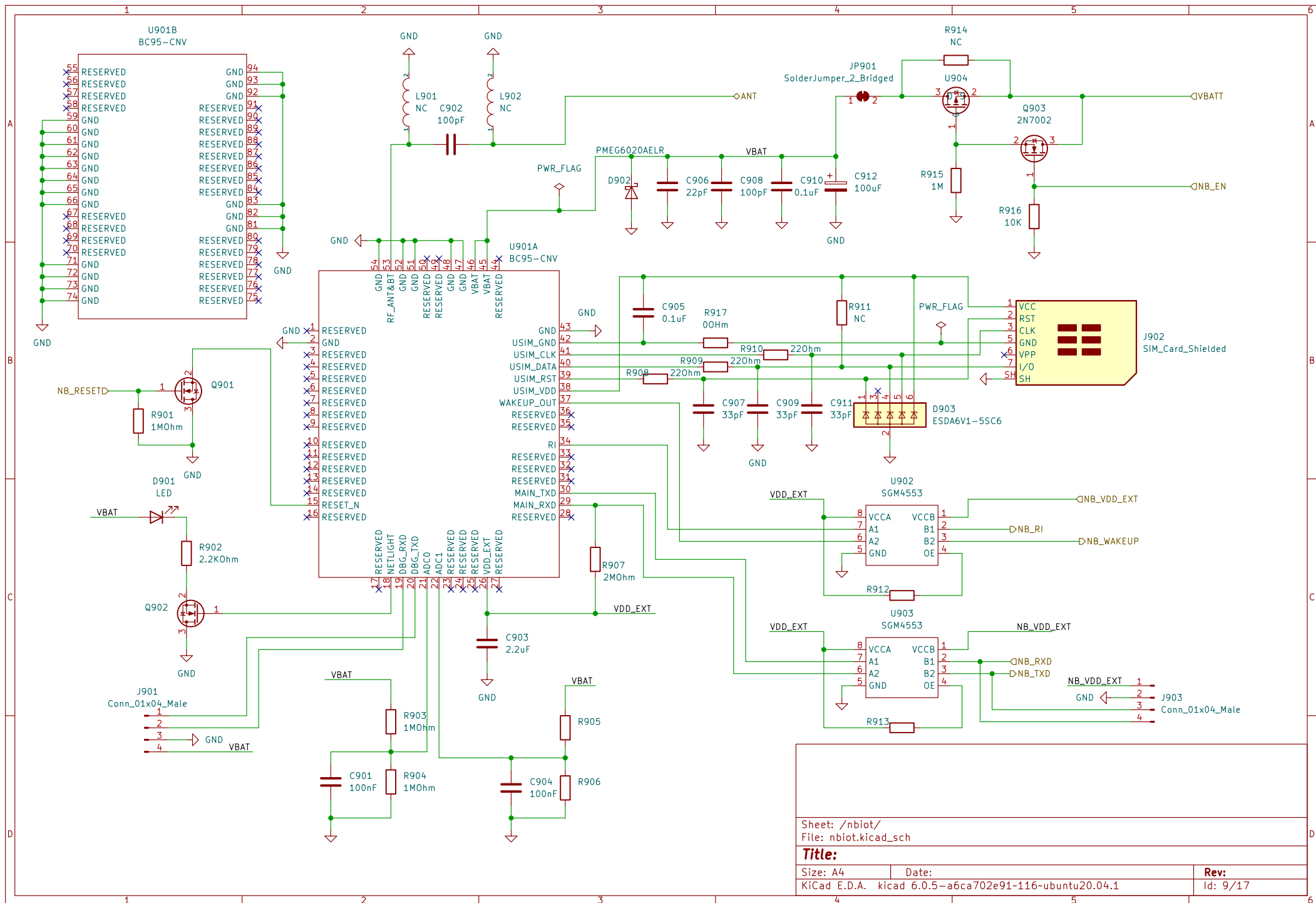
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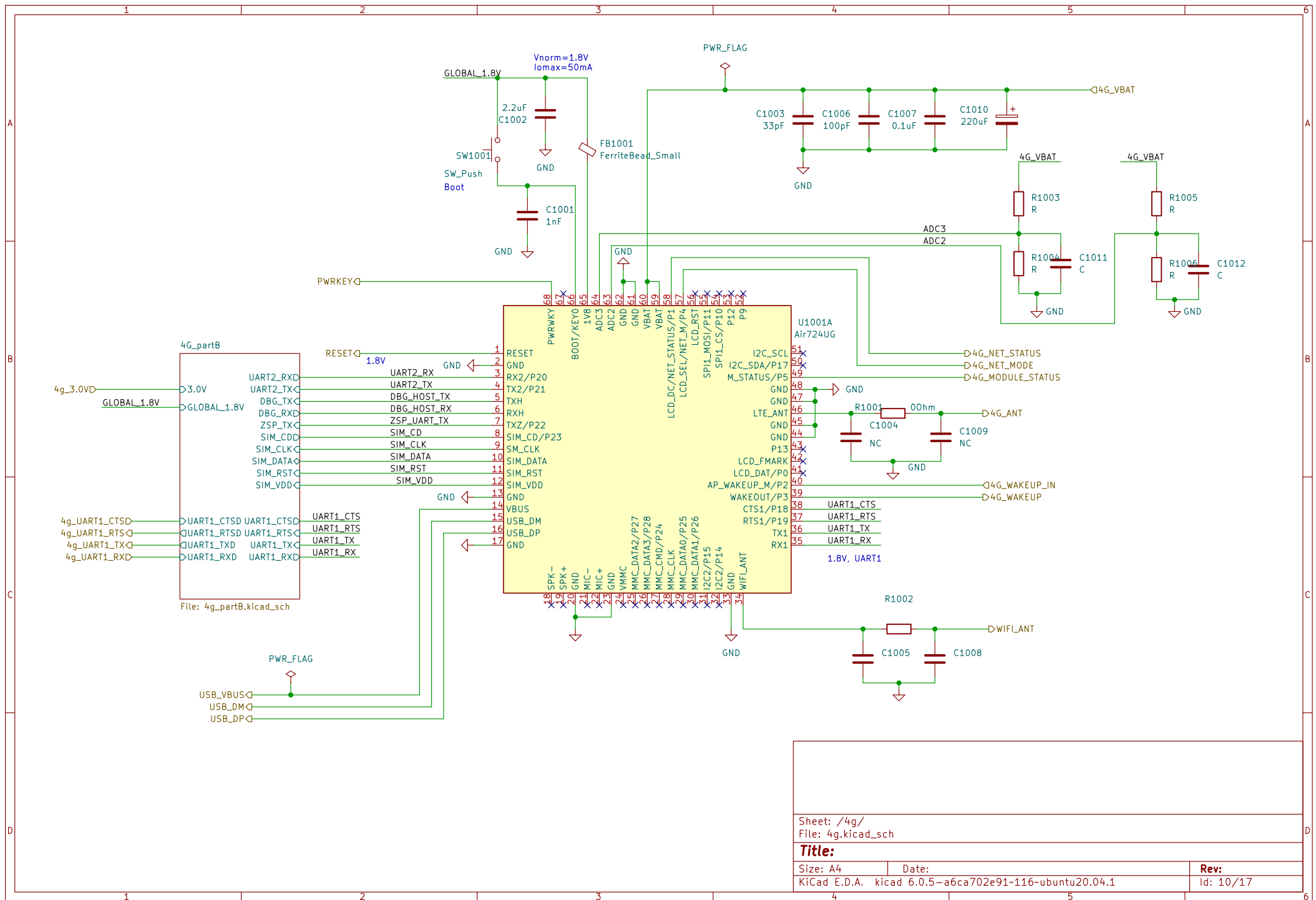
Size: A4	Date:
KiCad E.D.A. kicad 6.0.5-a6ca702e91~116-ubuntu20.04.1	

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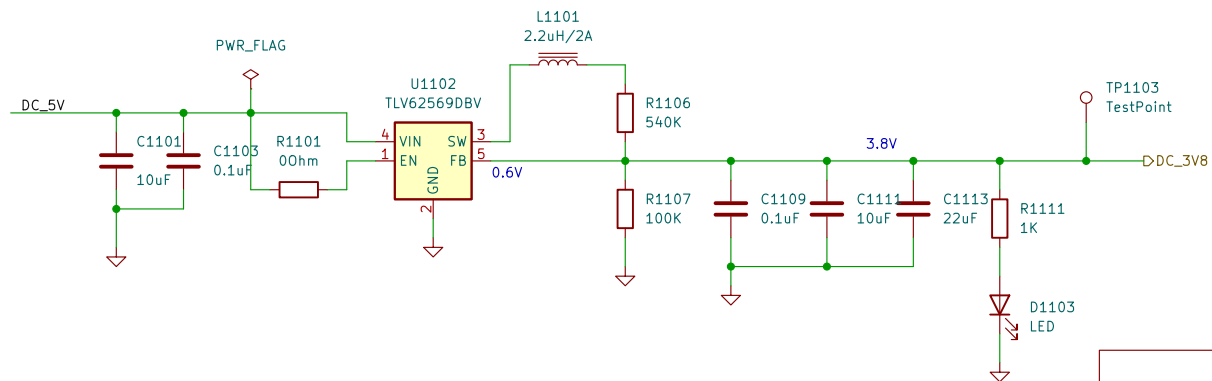
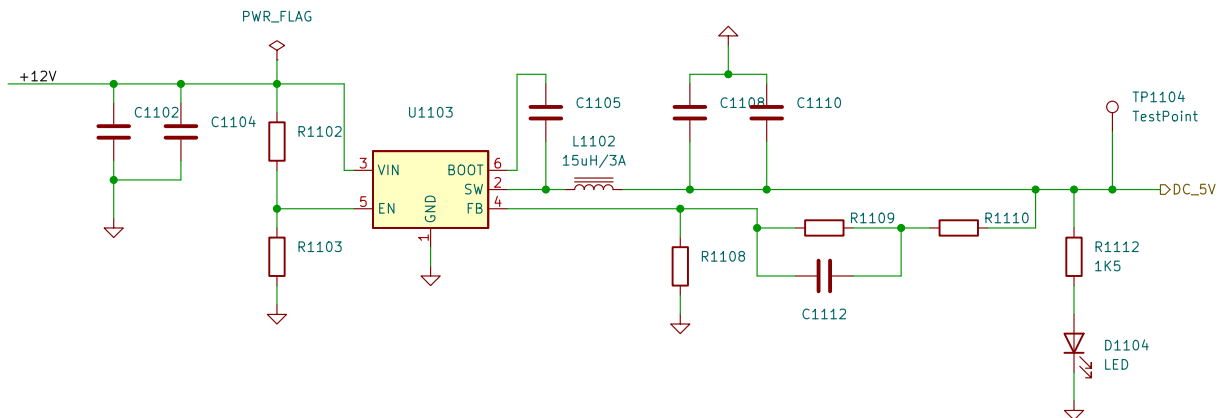
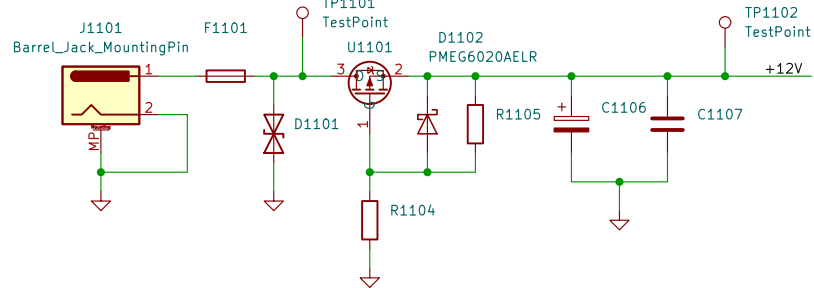








12V Input



Sheet: /power/DC12/  
File: DC12.kicad\_sch

**Title:**

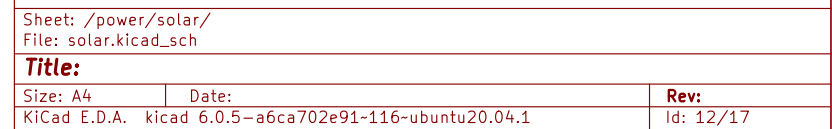
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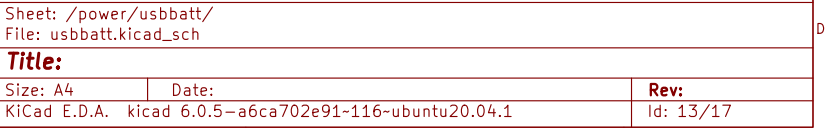
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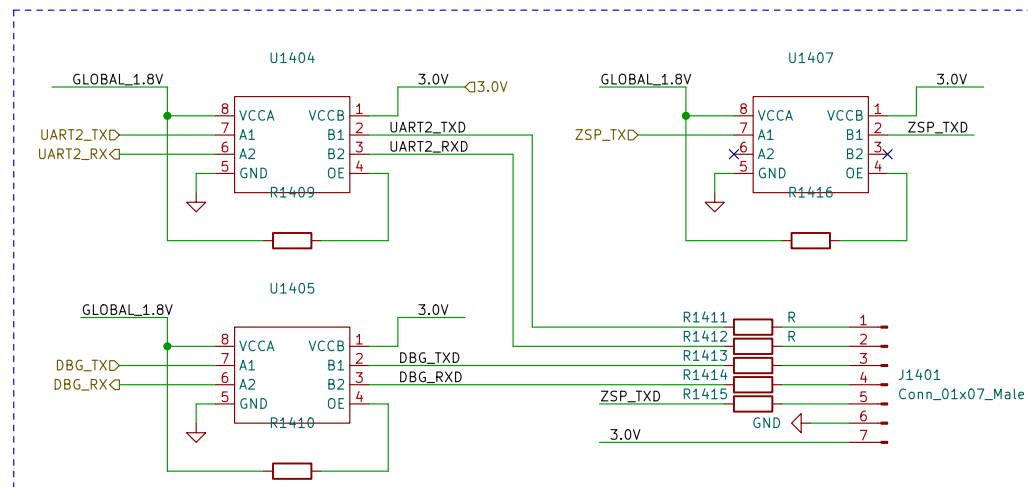
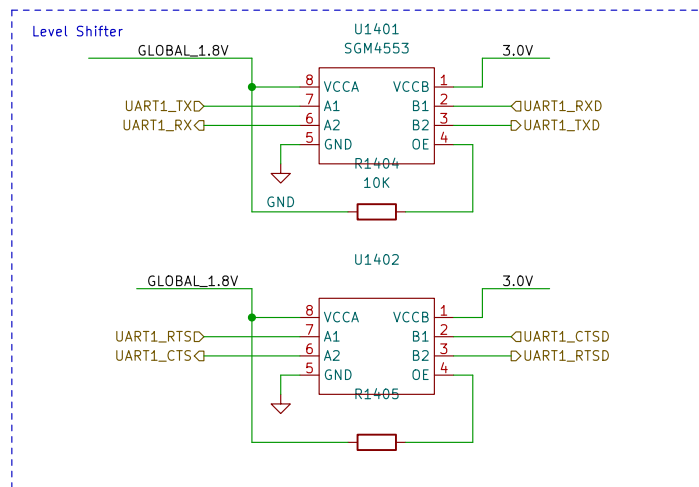
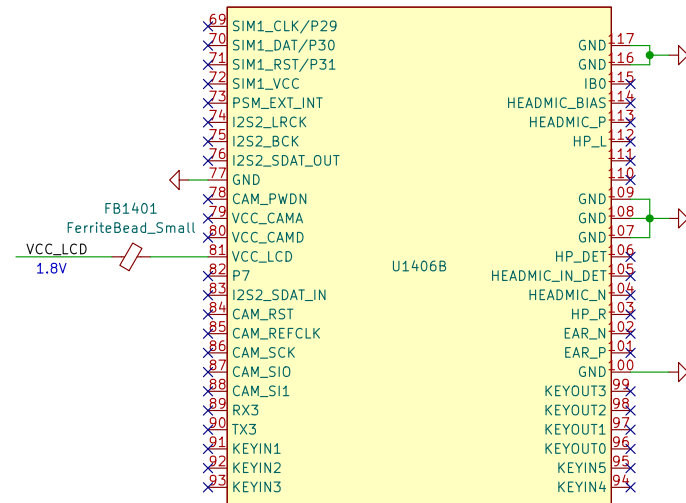
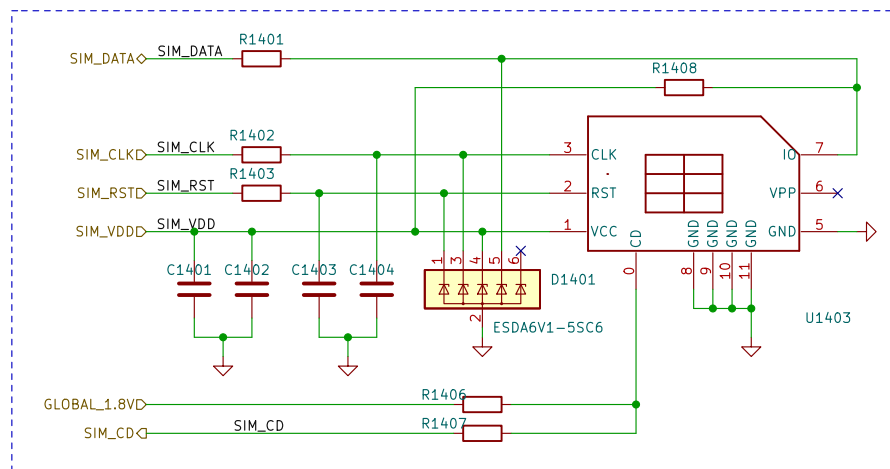
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Sheet: /4g/4G\_partB/  
File: 4g\_partB.kicad\_sch

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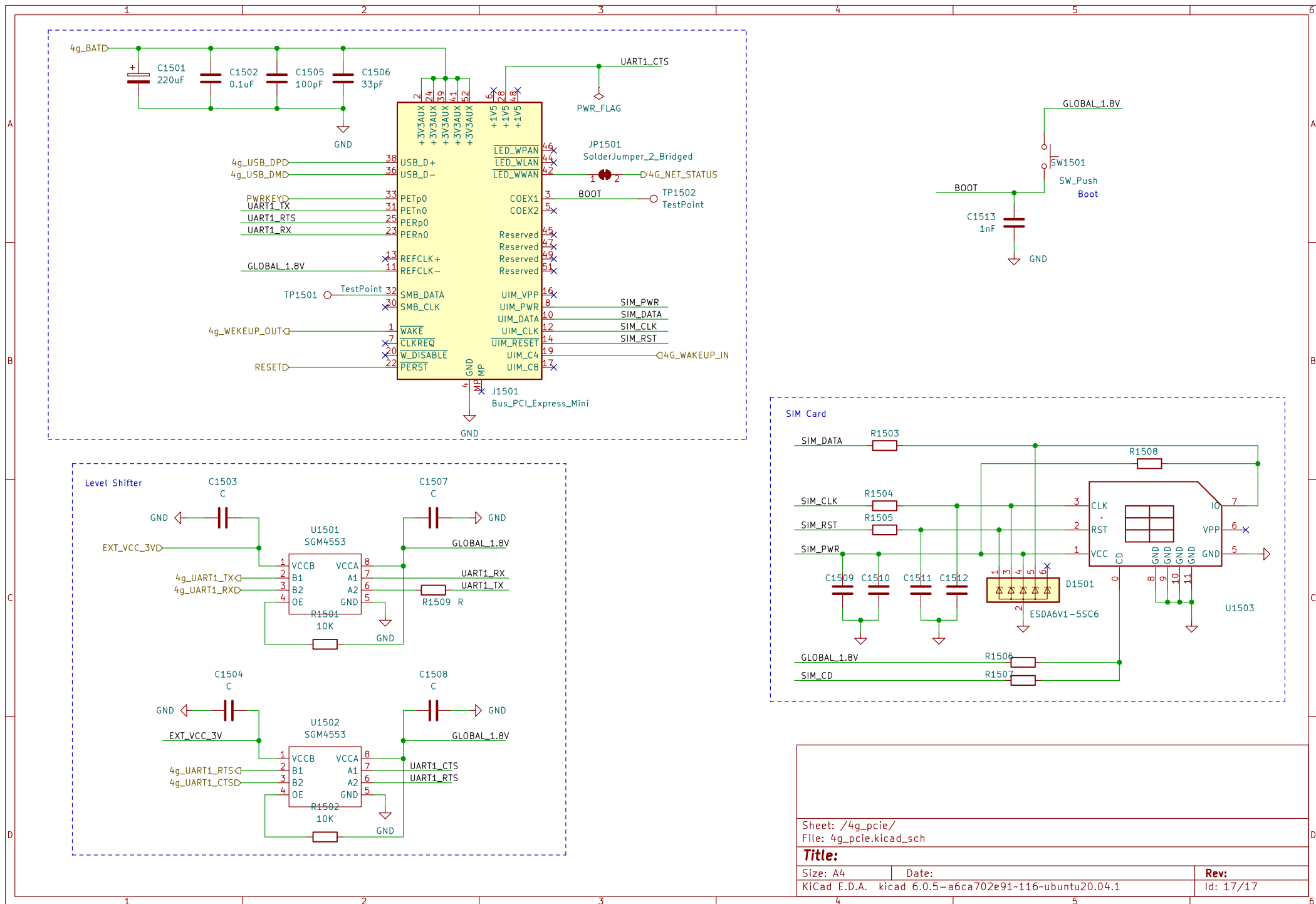
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KiCad E.D.A. kicad 6.0.5-a6ca702e91-116-ubuntu20.04.1

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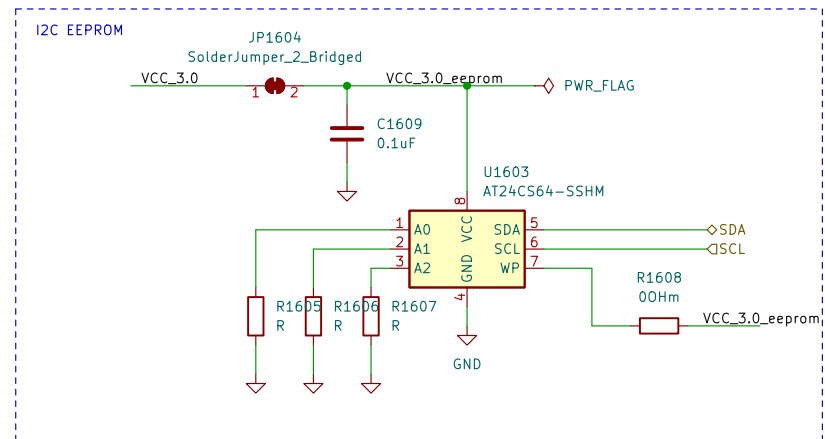
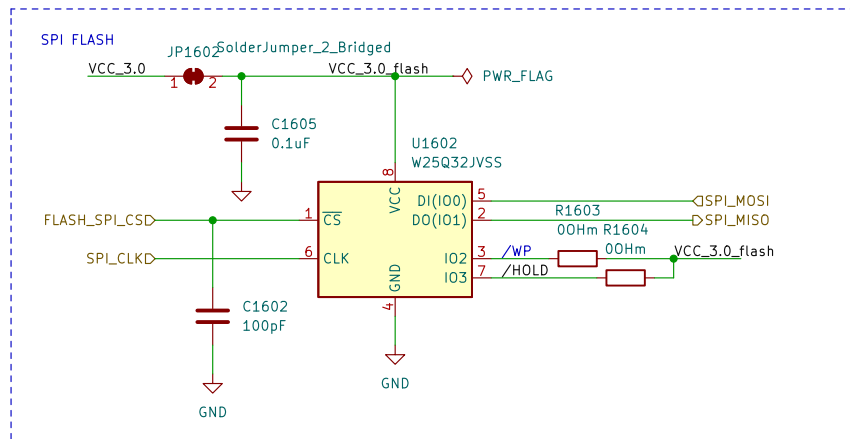
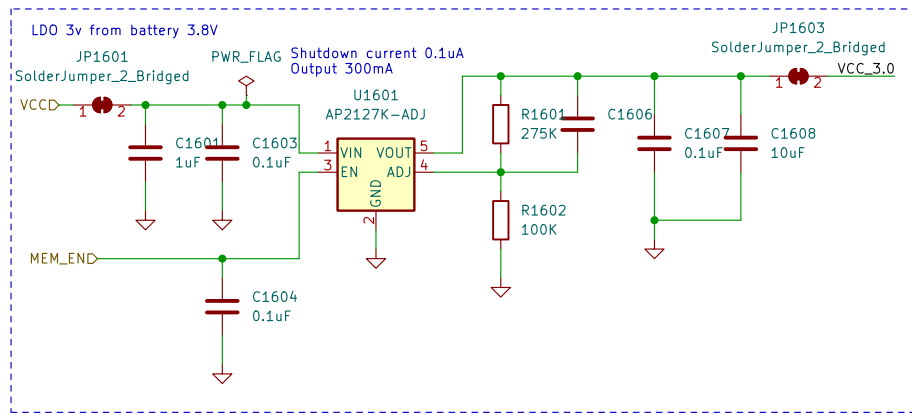


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File: 4g\_pcie.kicad\_sch

**Title:**

Size: A4 Date: KiCad E.D.A. kicad 6.0.5-a6ca702e91-116-ubuntu20.04.1

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Sheet: /Spi\_Flash/  
File: spiflash.kicad\_sch

**Title:**

Size: A4

Date:

KiCad E.D.A. kicad 6.0.5-a6ca702e91-116-ubuntu20.04.1

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