### Linux based scout UAV LinuxベースのスカウトUAV

Sheetname: osd32mp1-1-power

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Sheetname: osd32mp1-2

File: osd32mp1-2.kicad\_sch
Sheetname: osd32mp1-3

File: osd32mp1-3.kicad\_sch
Sheetname: battery-power

Sheetname: battery-power

File: battery-power.kicad\_sch
Sheetname: power-section-1

File: power-section-1.kicad\_sch
storage

File: storage.kicad\_sch
long-range-radio-1

File: long-range-radio-1

File: quectel-m65-1

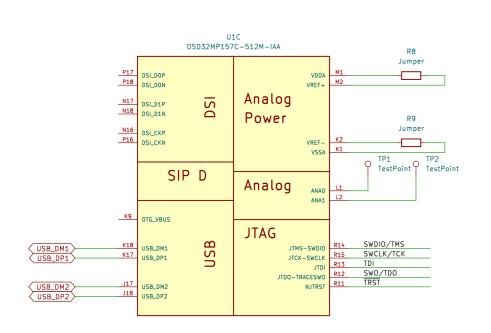
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GNSS

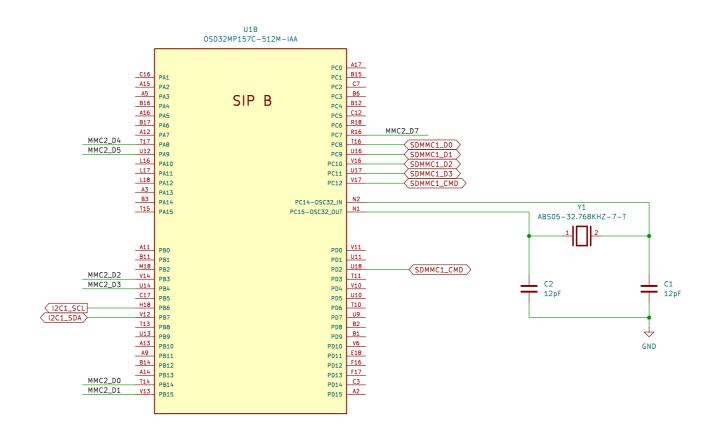
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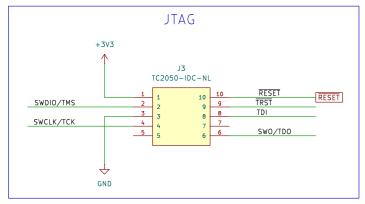
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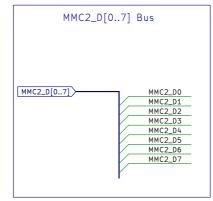
OSD32MP1 power +VIN +3V3 U1E OSD32MP157C-512M-IAA U1A OSD32MP157C-512M-IAA VSS\_36 N11 VSS\_37 E12 SIP E PMIC\_VOUT4\_2 VSS\_38 F12 VSS\_39 +BST VSS\_6 VSS\_41 Power Inputs PMIC\_BSTOUT\_1 VSS\_8 VSS\_43 Outputs K5 PMIC\_BSTIN\_1 +VSW VSS\_45 H13 VSS\_10 VSS\_11 PMIC\_BSTIN\_2 M5 N5 VSS\_46 L9 PMIC\_BSTIN\_3 PMIC\_BSTIN\_4 VSS\_48 L13 P5 E6 VSS\_13 PMIC SWOUT PMIC\_SWOUT\_2 VSS\_50 N13 VSS\_15 VSS\_16 N6 VSS\_51 VSS\_52 F14 VSS\_17 PMIC\_SWIN\_1 H9 PMIC\_SWIN\_2 VSS\_18 VSS\_53 to <u>v</u>: PMIC\_VBUSOTG K8 VSS\_20 VSS\_55 NOTE: Can use pours pads instead of a VSS\_22 VSS\_57 F8 PMIC\_LD025IN N8 P8 VSS\_59 N14 VSS\_24 VSS\_25 VSS\_60 VSS\_26 VSS\_27 +VLD02 VSS\_61 VSS\_62 E10 VSS\_29 F10 VSS\_30 VSS\_64 SIP A N10 VSS\_30 VSS\_31 VSS\_32 VSS\_33 VSS\_34 VSS\_35 VSS\_66 L15 VSS\_67 VSS\_68 VSS\_69 J16 PMIC I DOS PONKEY PMIC\_PONKEYN PMIC\_LD06 VDDI RESET M3 Internal Use Only VDD\_1 Connect VDD\_3 Pull down to enable Together Can be used VDD 5 for boot config Internal Use Only GND to program EEPROM GND VDD\_9 Together EEPROM\_WP P4 EEPROM\_WP User config and reset control Connect to VDD VRAT SIP F BYPASS\_REG1V8 Config Power Rails SW1 SW\_DIP\_x04 R7 10K Do Not Use Test Point per S1 B3U-1000P signal RESET recommended TP11TestPoint O J2 HSE\_OSC\_TP OSD32MP157C-512M-IAA Processor Control | TP12 TestPoint | L3 | PA0/PMIC\_INTN | TP13 TestPoint | D5 | PWR\_ON/PMIC\_PWRCTRL GND TP15 TestPoint O K6
TP16 TestPoint O L6
TP17 TestPoint O L6
TP17 TestPoint O L6 Do Not Use Test Point per TP18 TestPoint O N4 signal recommended Sheet: /osd32mp1-1-power/ File: osd32mp1-1-power.kicad\_sch Title: Size: A3 Date: KiCad E.D.A. 8.0.7

### 05D32MP1





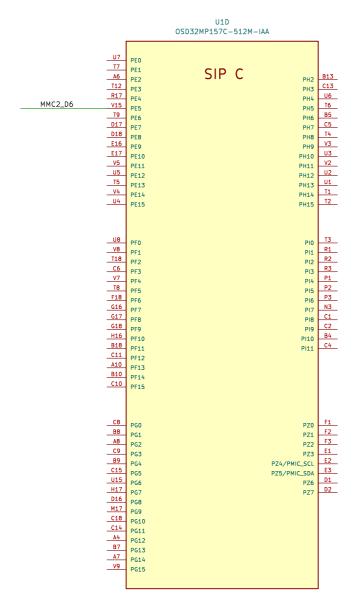


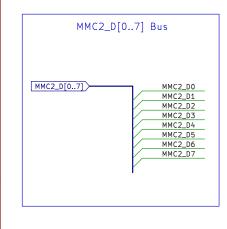




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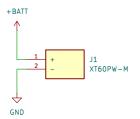
### 0SD32MP1





# Battery Power バッテリー電源

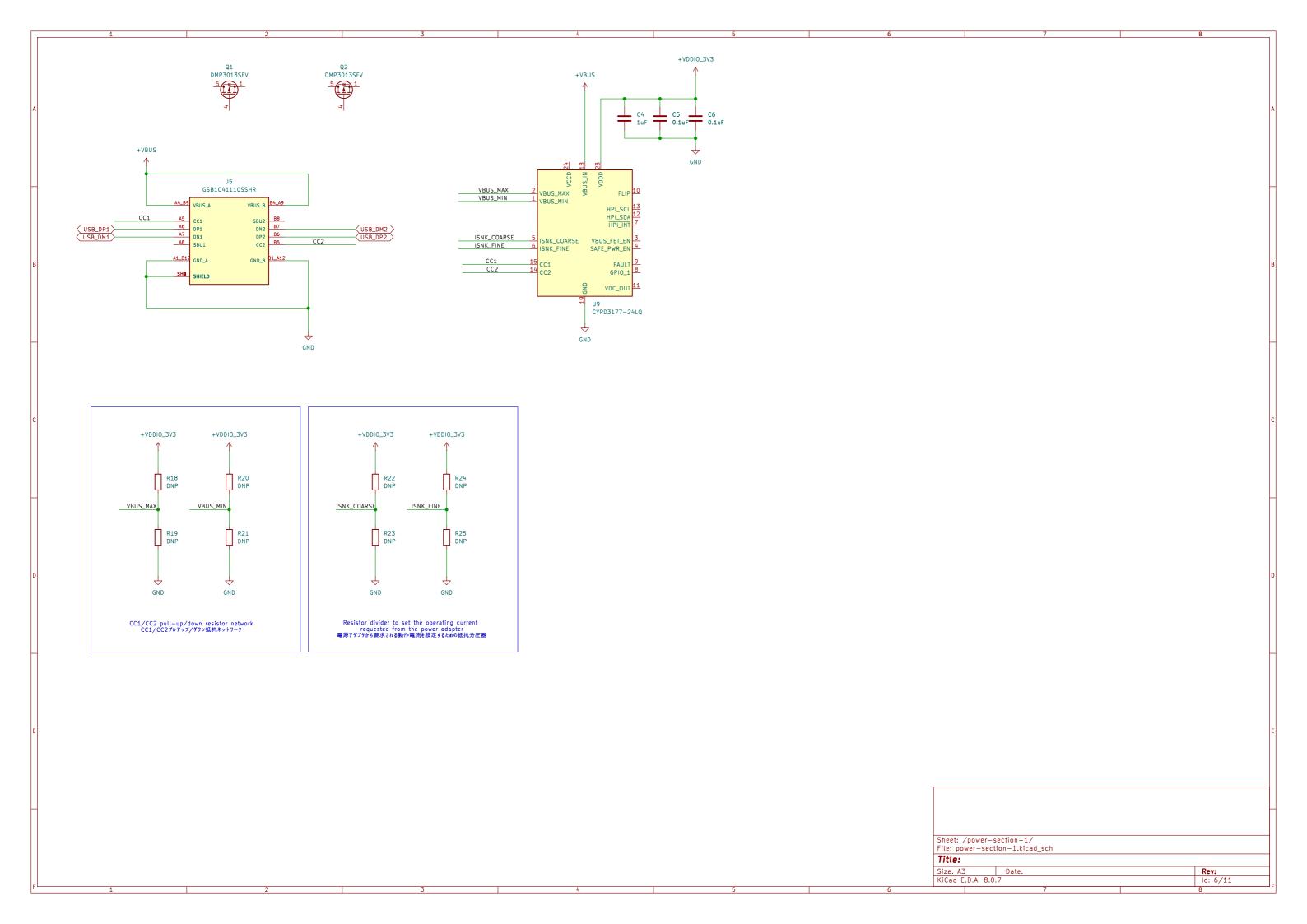
#### 2S-6S LiPo battery



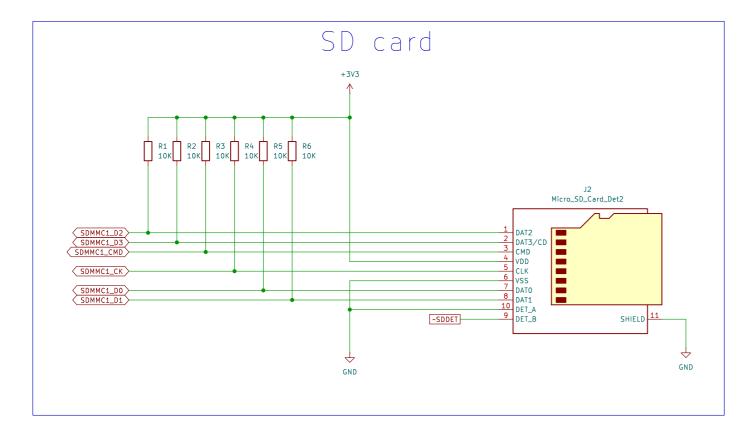


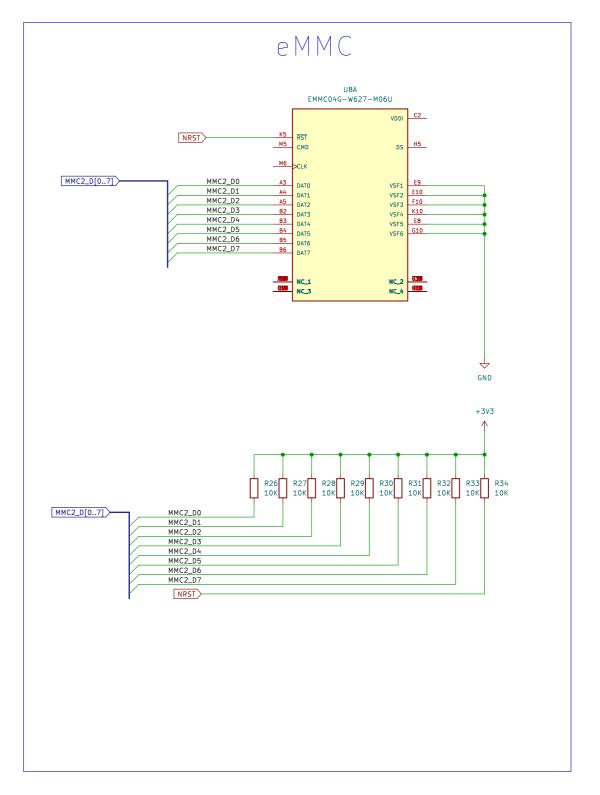
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# Storage





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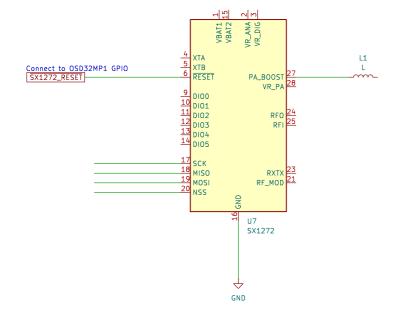
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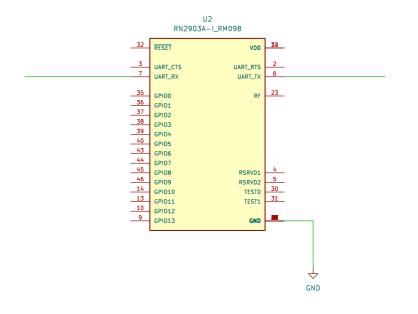
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# Long range radio

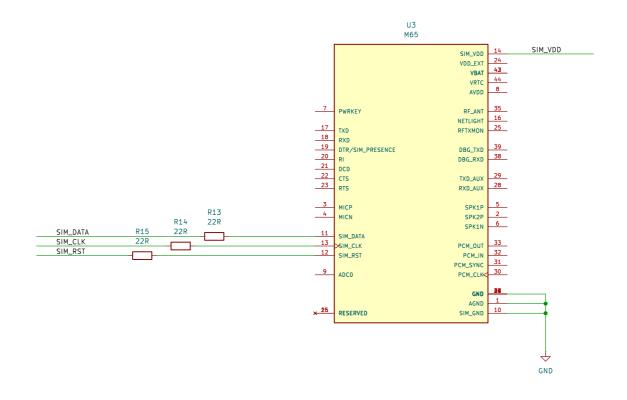
#### SX1272 LoRaWAN IC option

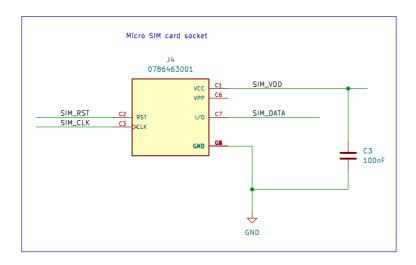


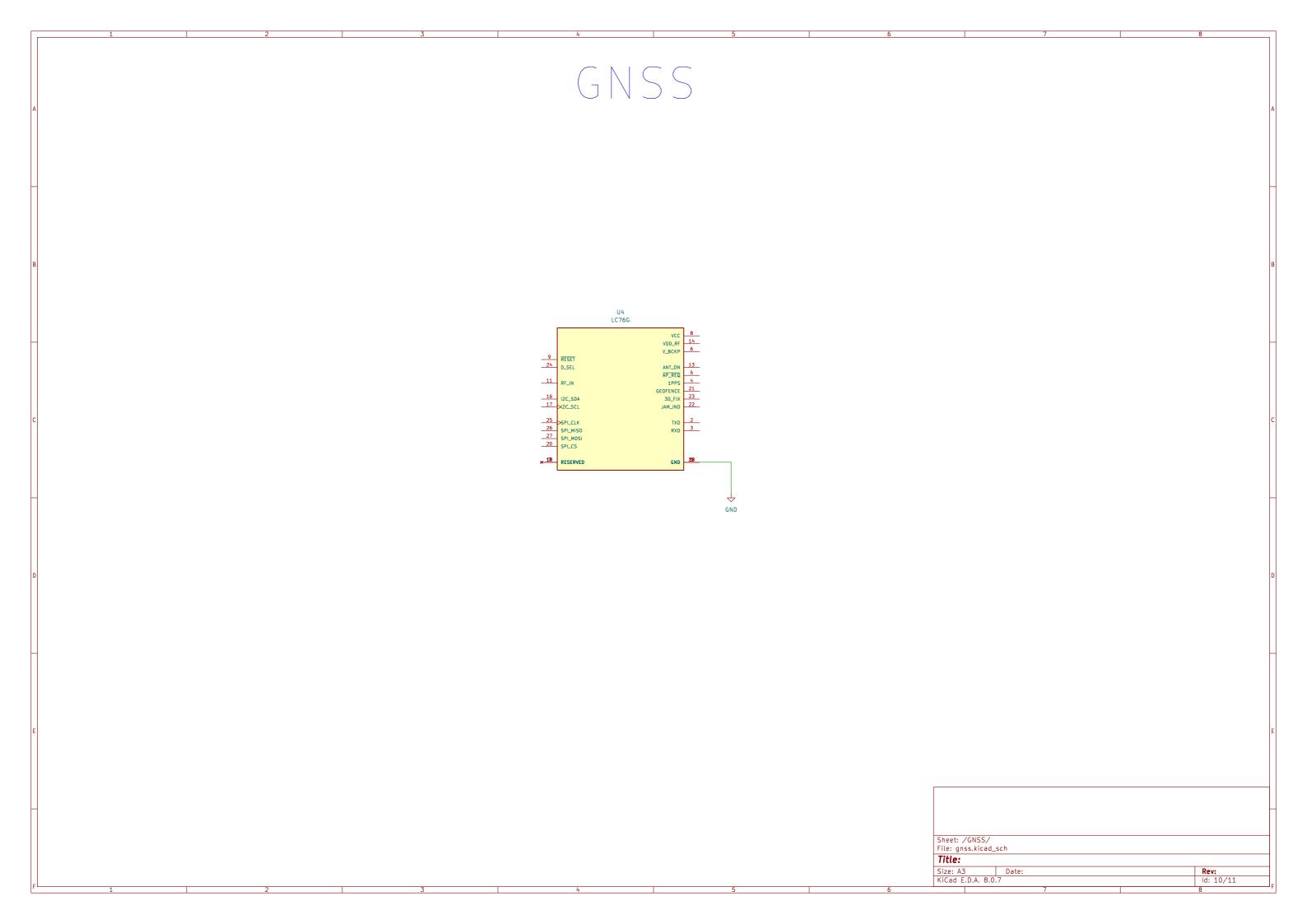
#### RN2903 LoRa module option



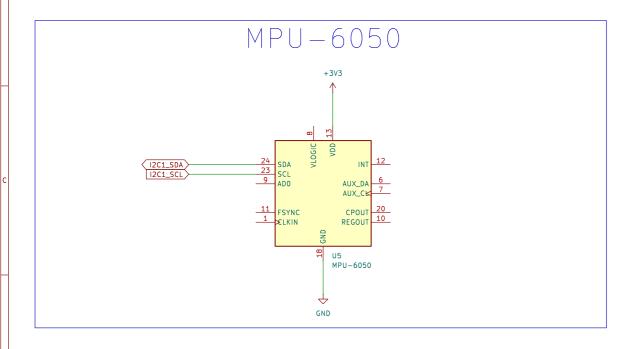
# GSM/GPRS 2G Comms

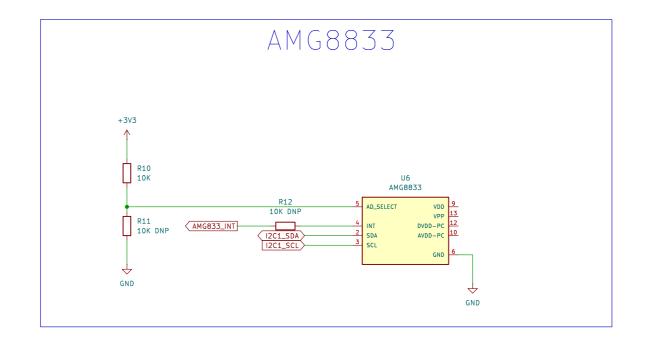


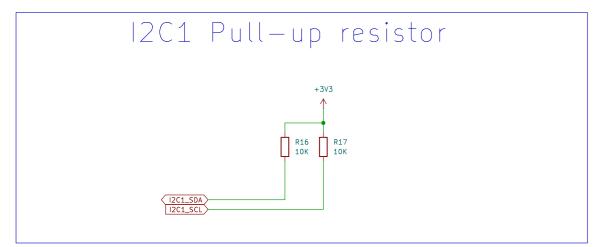




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