

# Linux based scout UAV

## LinuxベースのスカウトUAV

Sheetname: osd32mp1-1-power

File: osd32mp1-1-power.kicad\_sch

Sheetname: osd32mp1-2

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Sheetname: osd32mp1-3

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Sheetname: battery-power

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Sheetname: power-section-1

File: power-section-1.kicad\_sch

storage

File: storage.kicad\_sch

long-range-radio-1

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

quectel-m65-1

File: quectel-m65-1.kicad\_sch

GNSS

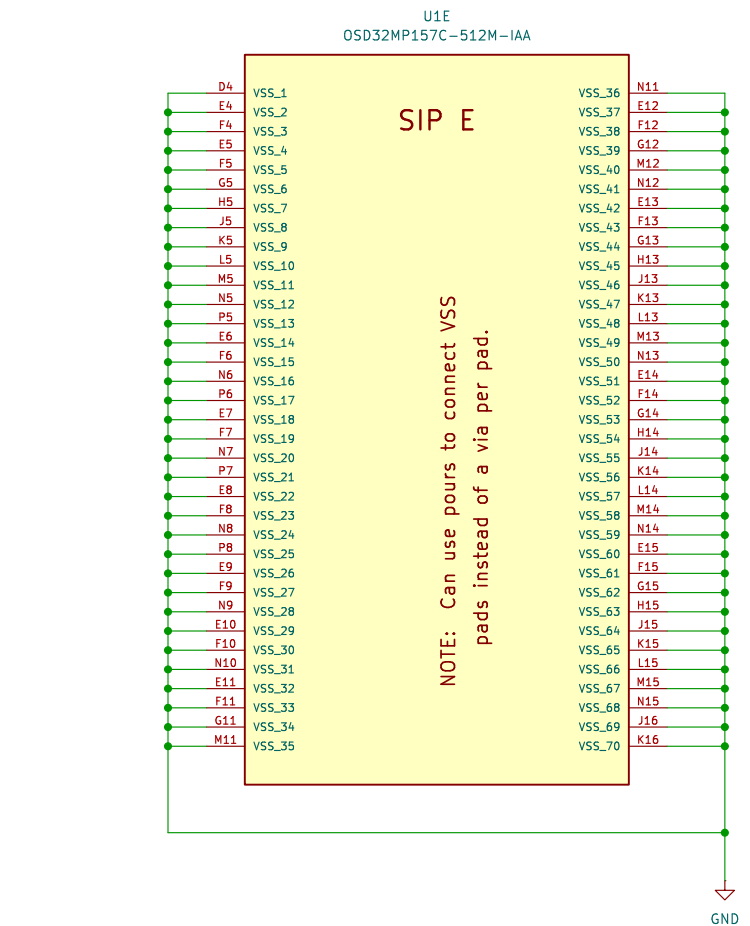
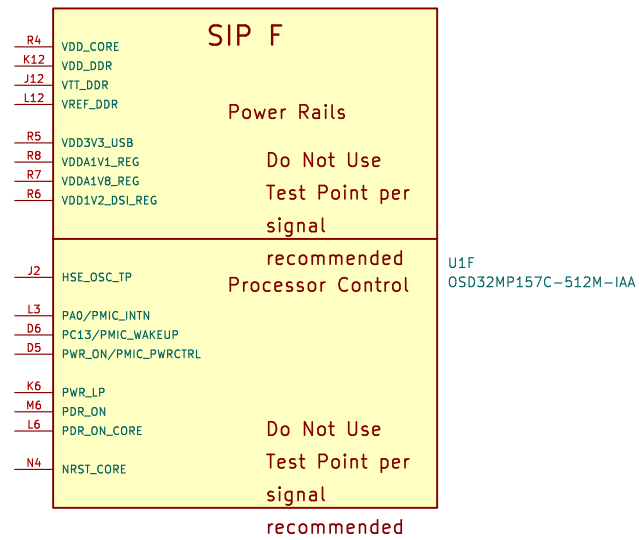
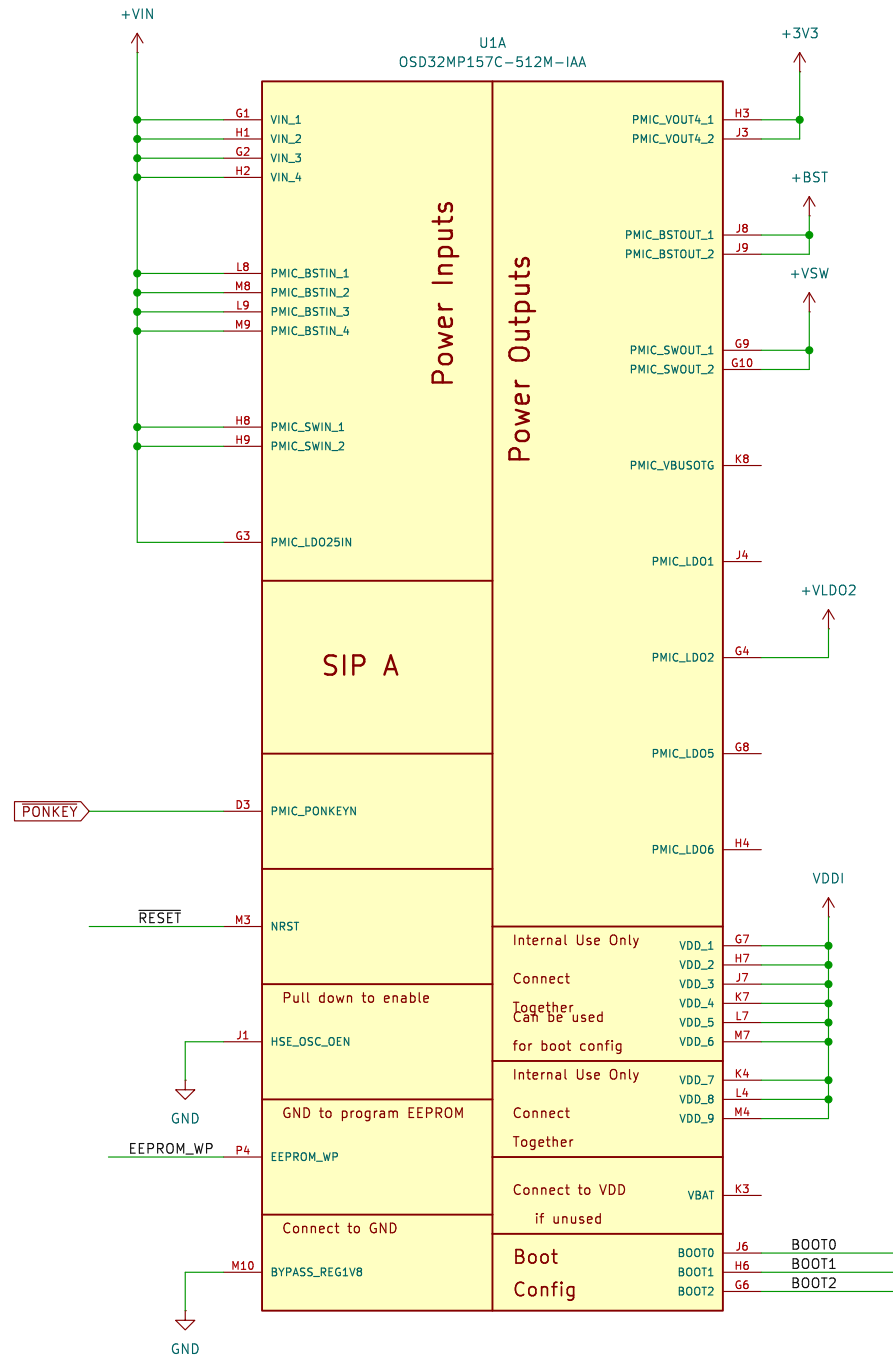
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sensors-1

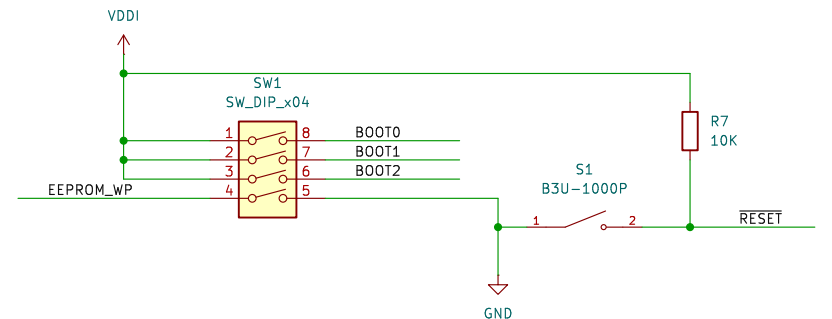
File: sensors-1.kicad\_sch

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| File: linux-based-scout-uav.kicad_sch |          |  |      |
| Title:                                |          |  |      |
| Size: A3                              | Date:    |  | Rev: |
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# OSD32MP1 power



## User config and reset control



Sheet: /osd32mp1-1-power/  
File: osd32mp1-1-power.kicad\_sch

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Size: A3

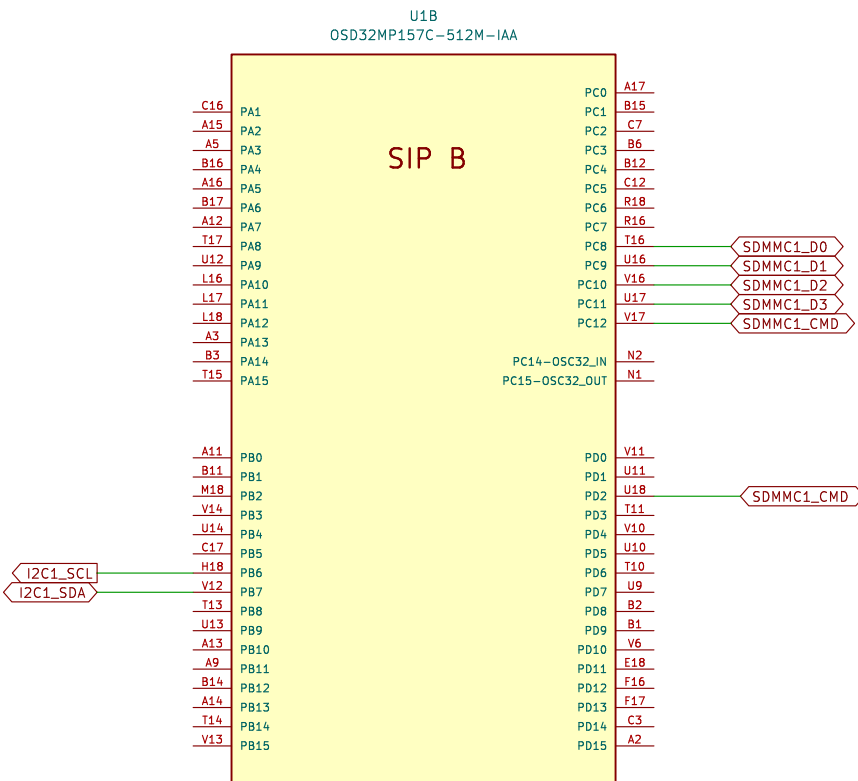
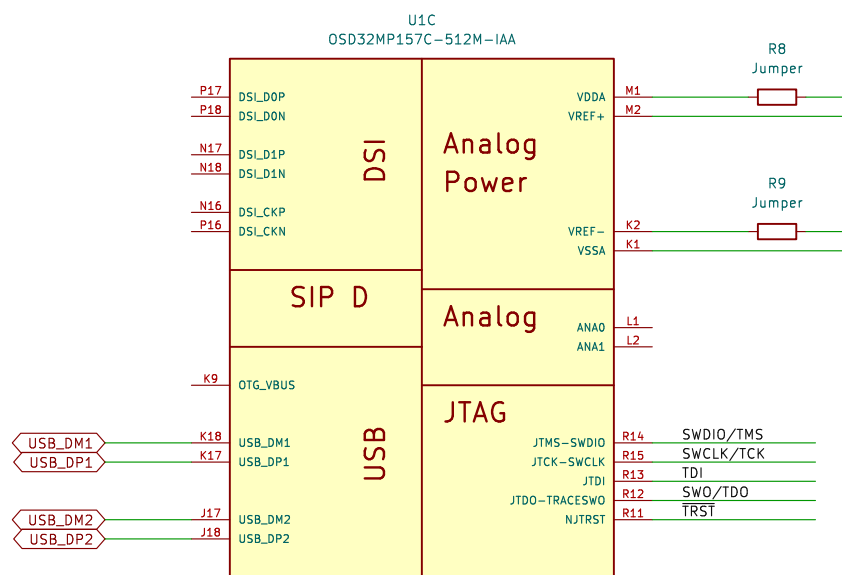
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# OSD32MP1



Sheet: /osd32mp1-2/  
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**Title:**

Size: A3

Date:

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# OSD32MP1

U1D  
OSD32MP157C-512M-IAA

SIP C

|            |      |              |  |
|------------|------|--------------|--|
| <u>U7</u>  | PE0  |              |  |
| <u>T7</u>  | PE1  |              |  |
| <u>A6</u>  | PE2  |              |  |
| <u>T12</u> | PE3  |              |  |
| <u>R17</u> | PE4  |              |  |
| <u>V15</u> | PE5  |              |  |
| <u>T9</u>  | PE6  |              |  |
| <u>D17</u> | PE7  |              |  |
| <u>D18</u> | PE8  |              |  |
| <u>E16</u> | PE9  |              |  |
| <u>E17</u> | PE10 |              |  |
| <u>V5</u>  | PE11 |              |  |
| <u>U5</u>  | PE12 |              |  |
| <u>T5</u>  | PE13 |              |  |
| <u>V4</u>  | PE14 |              |  |
| <u>U4</u>  | PE15 |              |  |
|            |      |              |  |
| <u>U8</u>  | PF0  |              |  |
| <u>V8</u>  | PF1  |              |  |
| <u>T18</u> | PF2  |              |  |
| <u>C6</u>  | PF3  |              |  |
| <u>V7</u>  | PF4  |              |  |
| <u>T8</u>  | PF5  |              |  |
| <u>F18</u> | PF6  |              |  |
| <u>G16</u> | PF7  |              |  |
| <u>G17</u> | PF8  |              |  |
| <u>G18</u> | PF9  |              |  |
| <u>H16</u> | PF10 |              |  |
| <u>B18</u> | PF11 |              |  |
| <u>C11</u> | PF12 |              |  |
| <u>A10</u> | PF13 |              |  |
| <u>B10</u> | PF14 |              |  |
| <u>C10</u> | PF15 |              |  |
|            |      |              |  |
| <u>C8</u>  | PG0  |              |  |
| <u>B8</u>  | PG1  |              |  |
| <u>A8</u>  | PG2  |              |  |
| <u>C9</u>  | PG3  |              |  |
| <u>B9</u>  | PG4  | PZ4/PMIC_SCL |  |
| <u>C15</u> | PG5  | PZ5/PMIC_SDA |  |
| <u>U15</u> | PG6  |              |  |
| <u>H17</u> | PG7  |              |  |
| <u>D16</u> | PG8  |              |  |
| <u>M17</u> | PG9  |              |  |
| <u>C18</u> | PG10 |              |  |
| <u>C14</u> | PG11 |              |  |
| <u>A4</u>  | PG12 |              |  |
| <u>B7</u>  | PG13 |              |  |
| <u>A7</u>  | PG14 |              |  |
| <u>V9</u>  | PG15 |              |  |

PH2  
PH3  
PH4  
PH5  
PH6  
PH7  
PH8  
PH9  
PH10  
PH11  
PH12  
PH13  
PH14  
PH15

B13  
C13  
U6  
T6  
B5  
C5  
T4  
V3  
U3  
V2  
U2  
U1  
T1  
T2

PI0  
PI1  
PI2  
PI3  
PI4  
PI5  
PI6  
PI7  
PI8  
PI9  
PI10  
PI11

T3  
R1  
R2  
R3  
P1  
P2  
P3  
N3  
C1  
C2  
B4  
C4

PZ0  
PZ1  
PZ2  
PZ3  
PZ6  
PZ7

F1  
F2  
F3  
E1  
E2  
E3  
D1  
D2

Sheet: /osd32mp1-3/  
File: osd32mp1-3.kicad\_sch

Title:

Size: A3

Date:

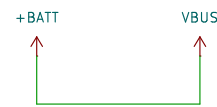
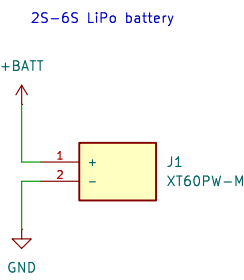
Rev:

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# Battery Power

## バッテリー電源



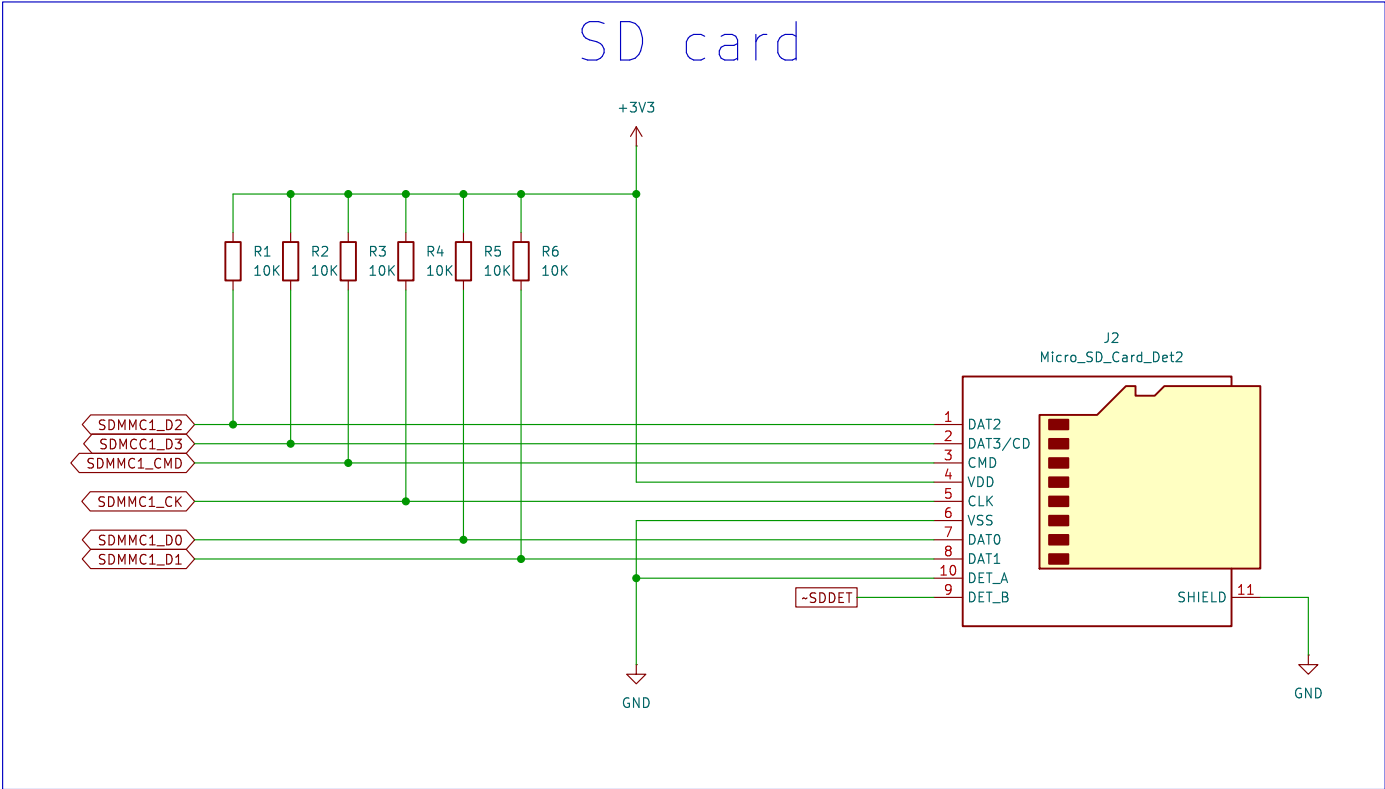
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|---|---|---|---|---|---|---|---|---|
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| B |   |   |   |   |   |   |   |   |
| C |   |   |   |   |   |   |   |   |
| D |   |   |   |   |   |   |   |   |
| E |   |   |   |   |   |   |   |   |
| F |   |   |   |   |   |   |   |   |

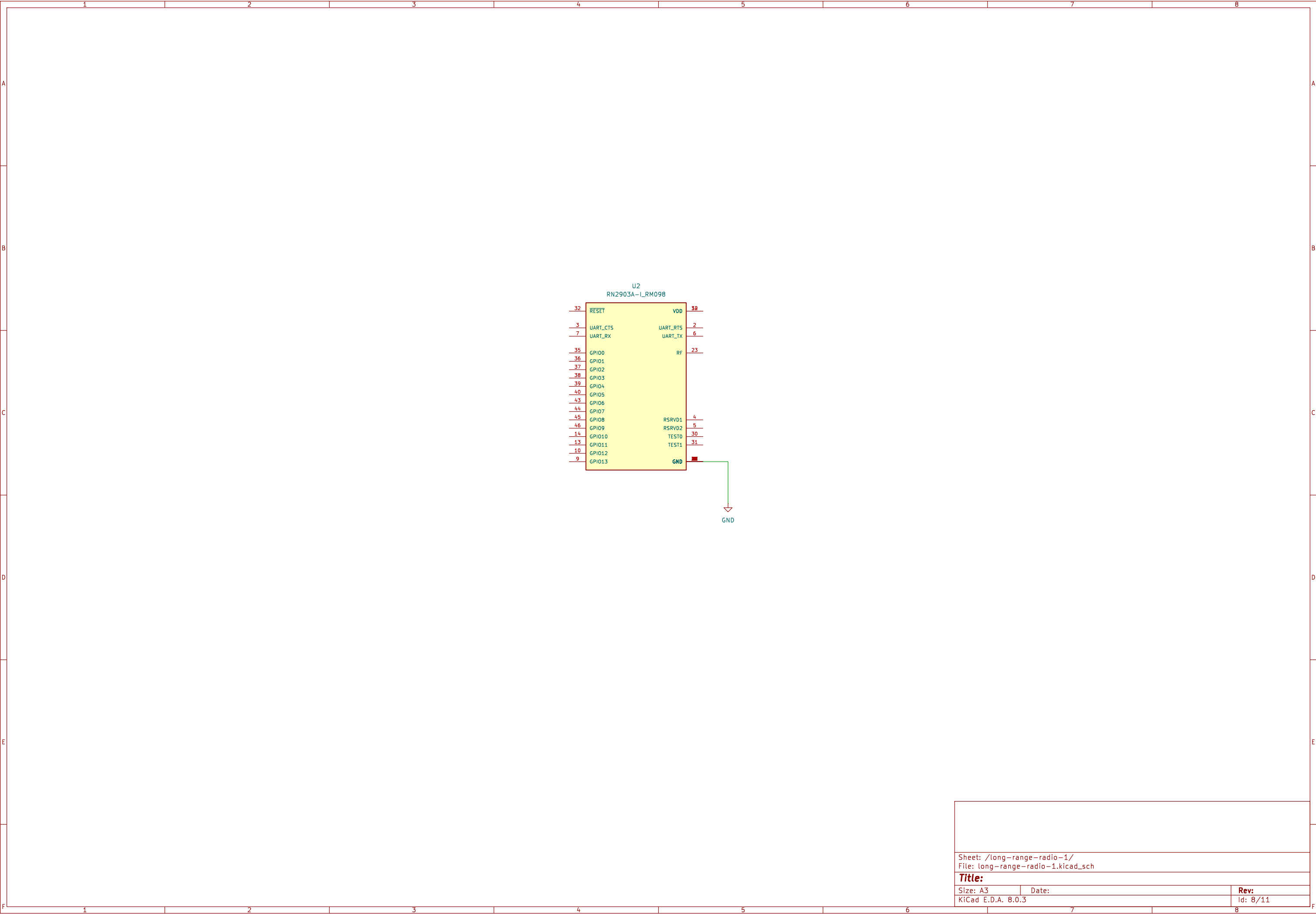
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| Size: A3  | Date:    | Rev: |
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# Storage

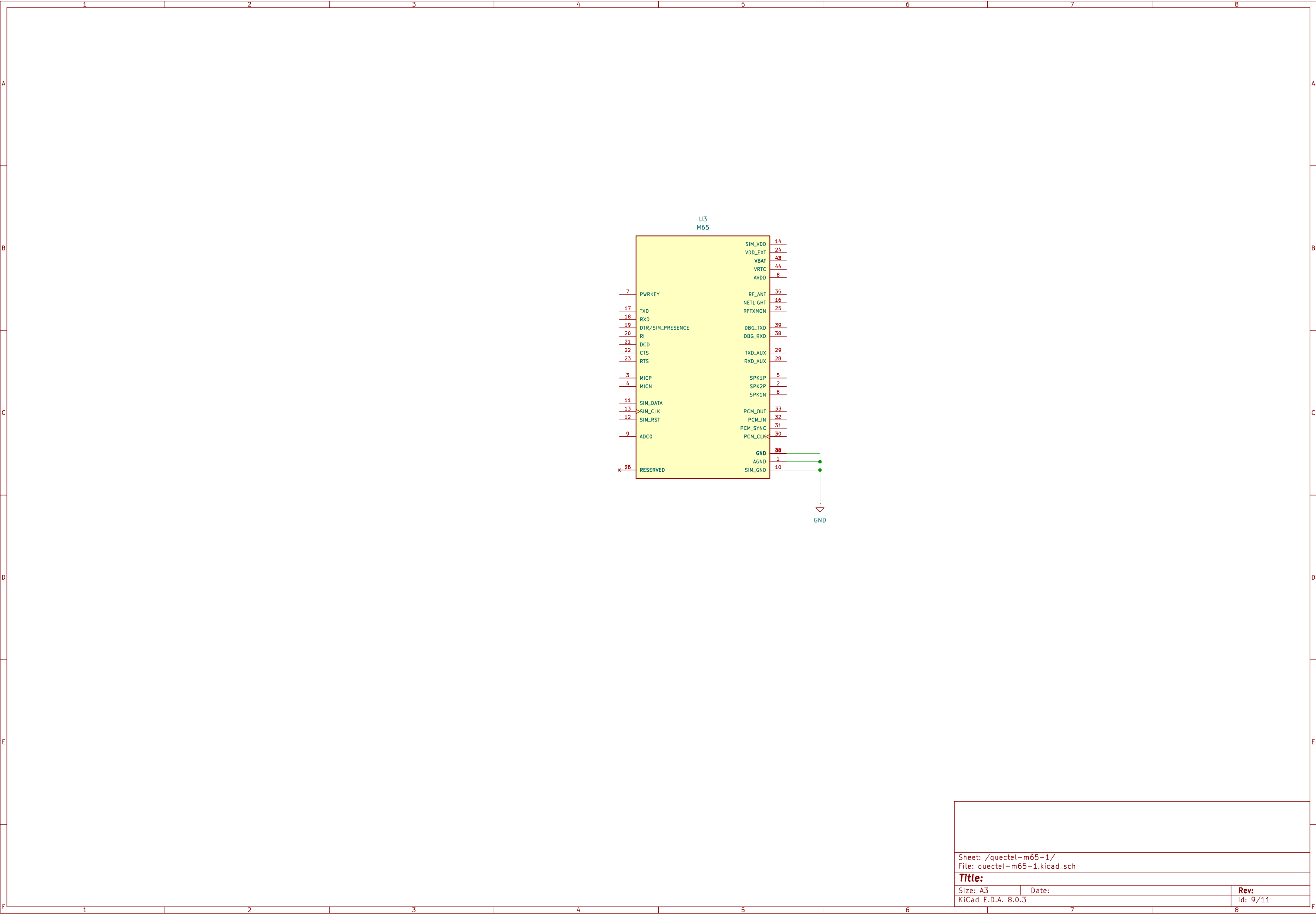
## 貯蔵

SD card

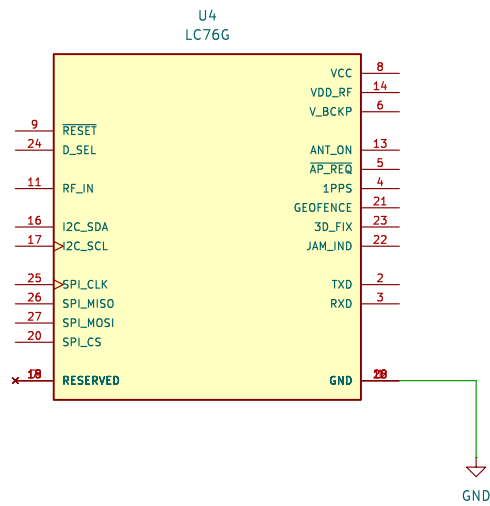








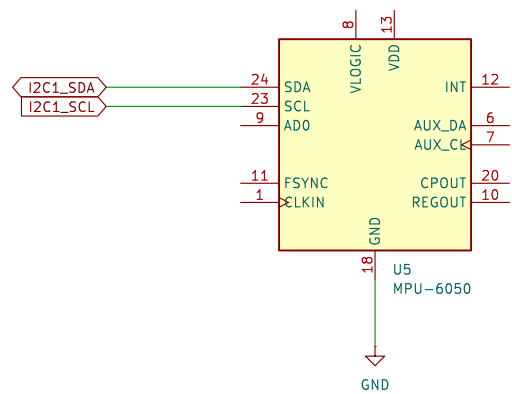
# GNSS



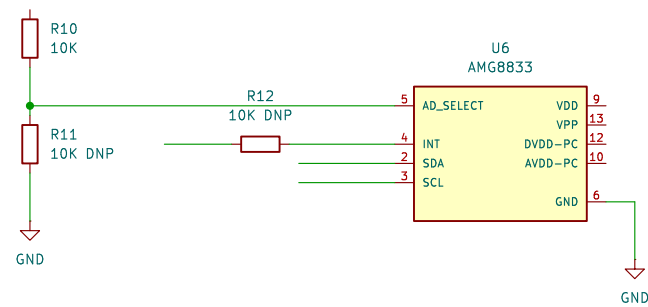
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| Title:                                |           |      |
| Size: A3                              | Date:     | Rev: |
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# Sensors

MPU-6050



AMG8833



Sheet: /sensors-1/  
File: sensors-1.kicad\_sch

**Title:**

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