

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

File: osd32mp1-2.kicad_sch

Sheetname: osd32mp1-3

File: osd32mp1-3.kicad_sch

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.kicad_sch

quectel-m65-1

File: quectel-m65-1.kicad_sch

GNSS

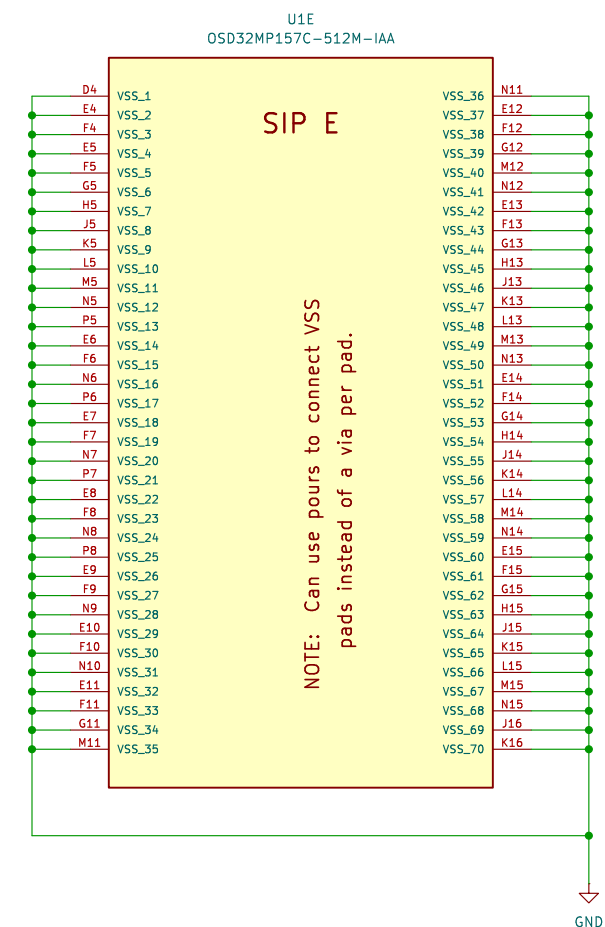
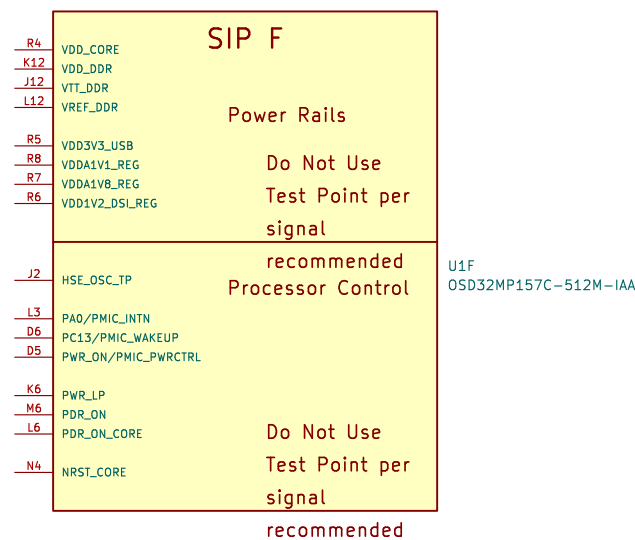
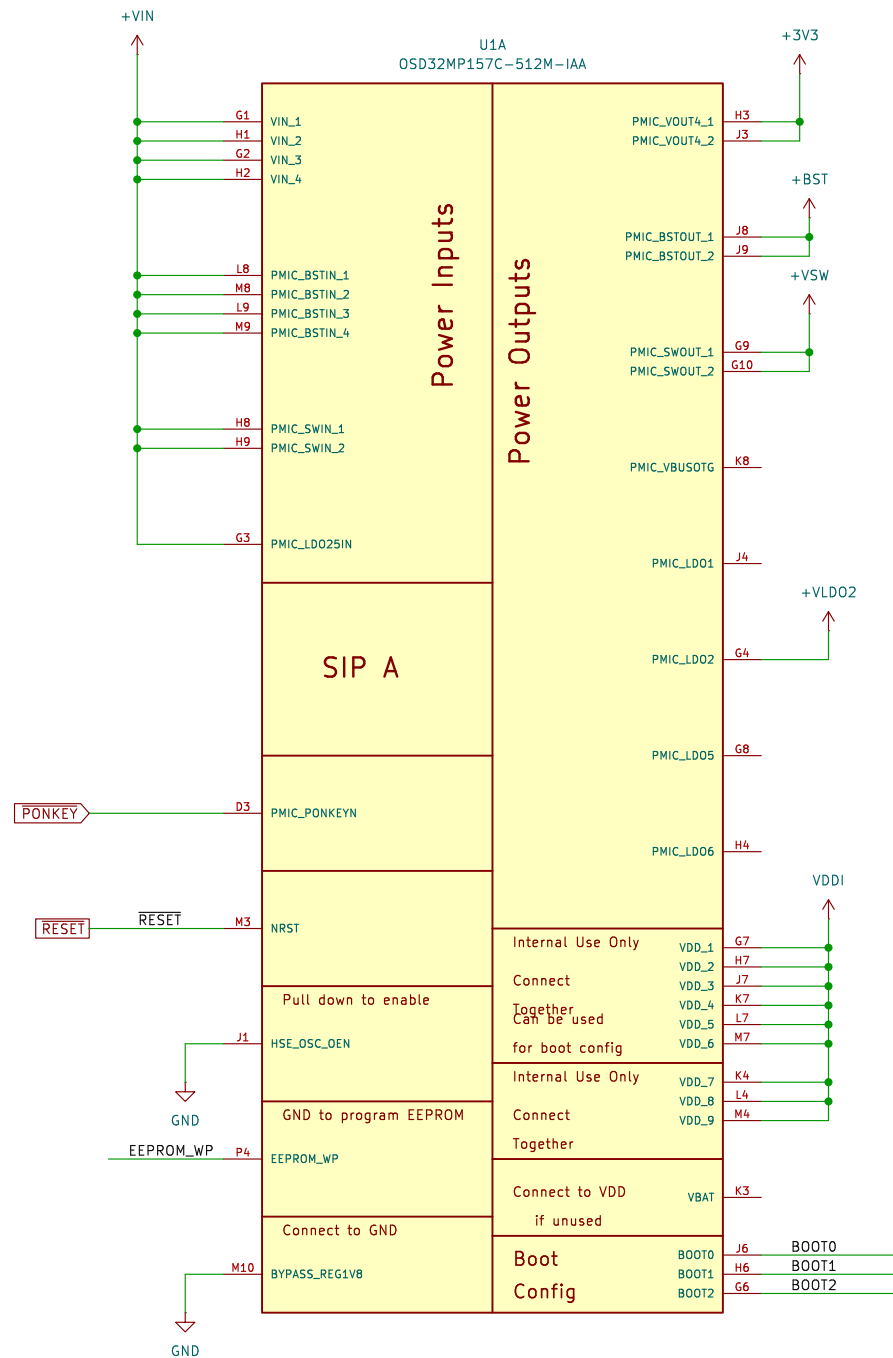
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sensors-1

sensors-1

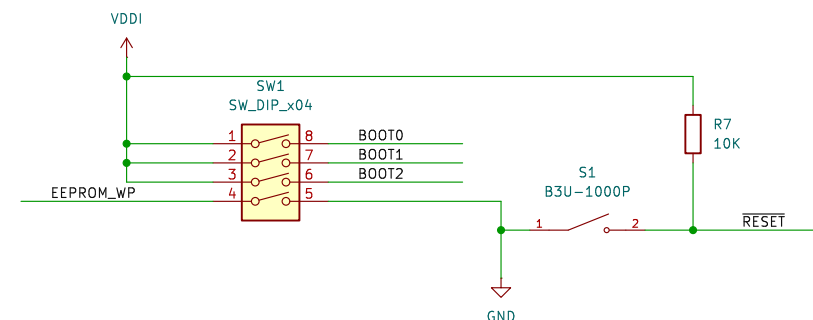
File: sensors-1.kicad_sch

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| Sheet: / File: linux-based-scout-uav.kicad_sch | | |
| Title: | | |
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| KiCad E.D.A. 8.0.4 | | Id: 1/11 |

OSD32MP1 power



User config and reset control



Sheet: /osd32mp1-1-power/
File: osd32mp1-1-power.kicad_sch

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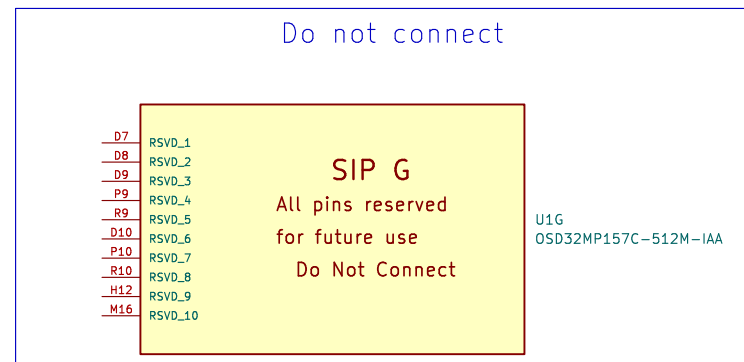
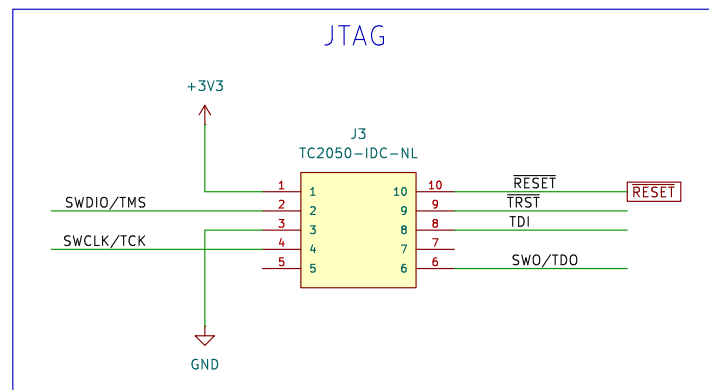
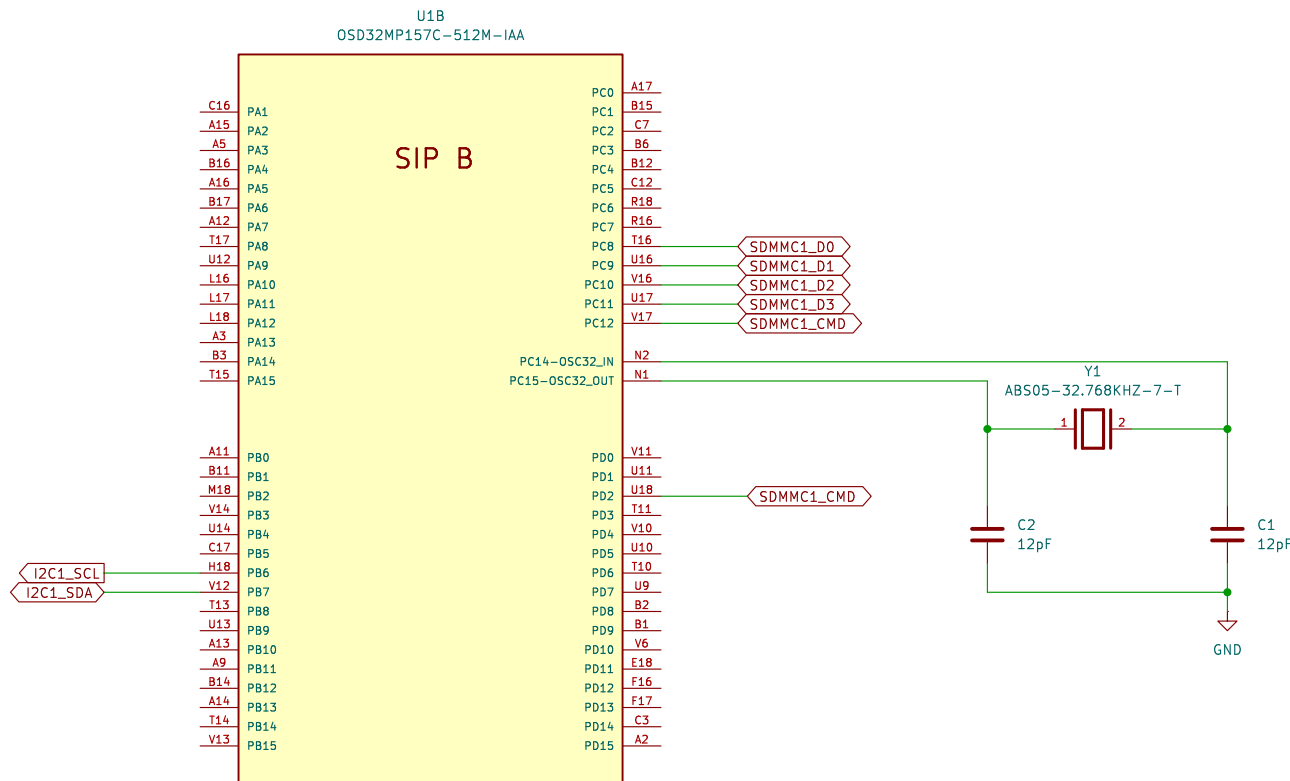
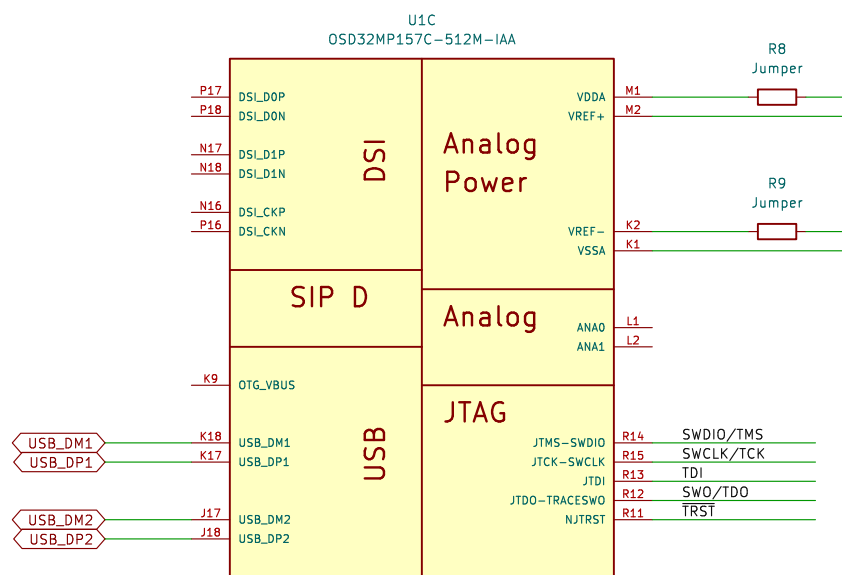
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OSD32MP1



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

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Date:

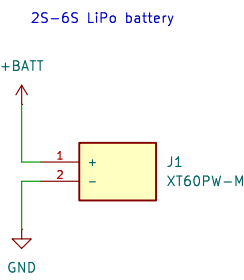
Rev:

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Battery Power

バッテリー電源



Sheet: /battery-power/
File: battery-power.kicad_sch

Title:

Size: A3

Date:

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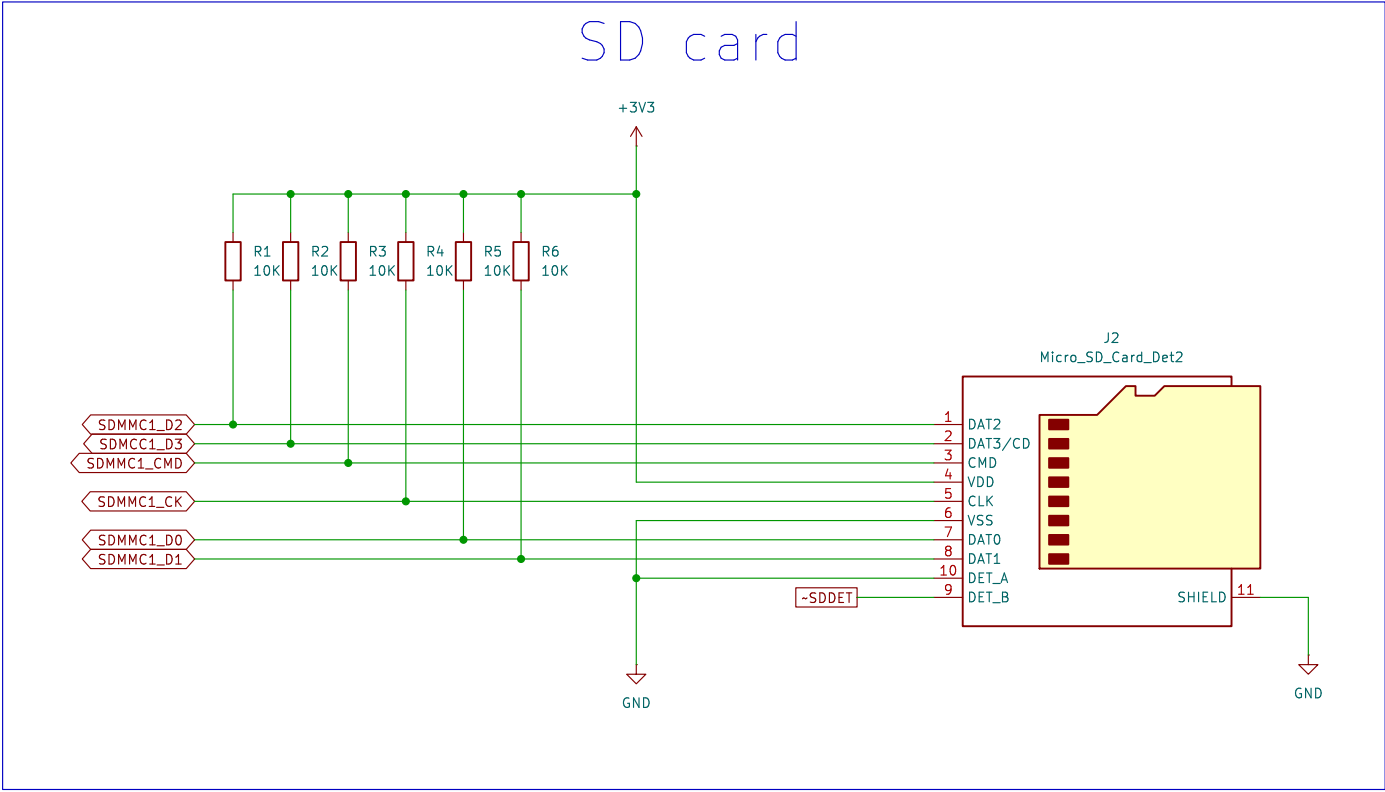
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|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |

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| Sheet: /power-section-1/ File: power-section-1.kicad_sch | | |
| Title: | | |
| Size: A3 | Date: | Rev: |
| KiCad E.D.A. 8.0.4 | Id: 6/11 | |

Storage

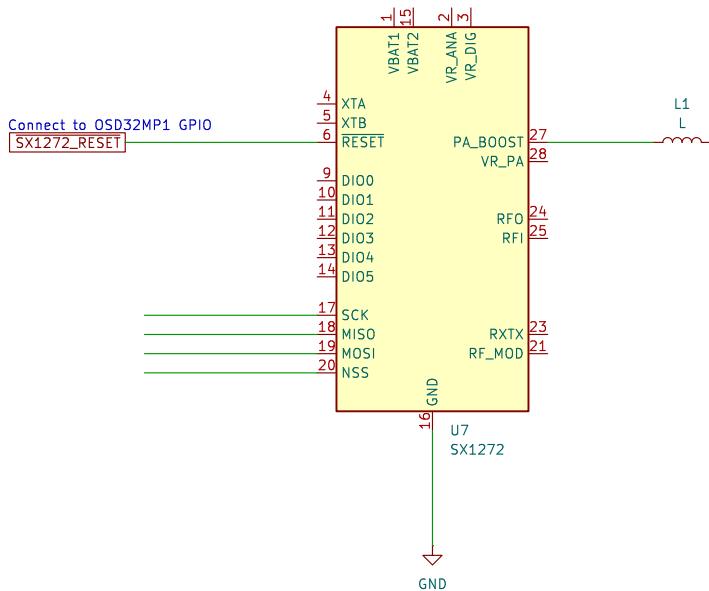
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SD card

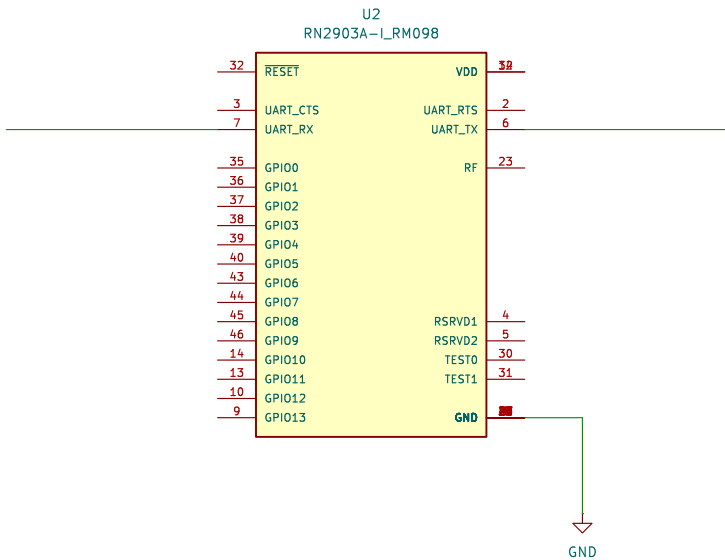


Long range radio

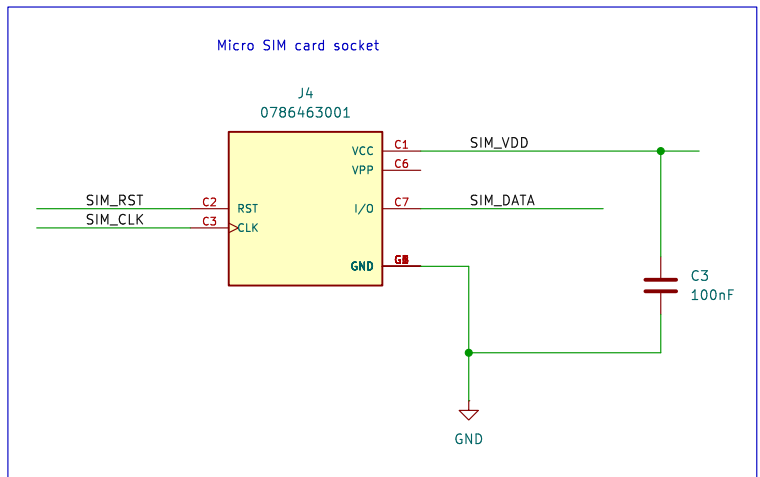
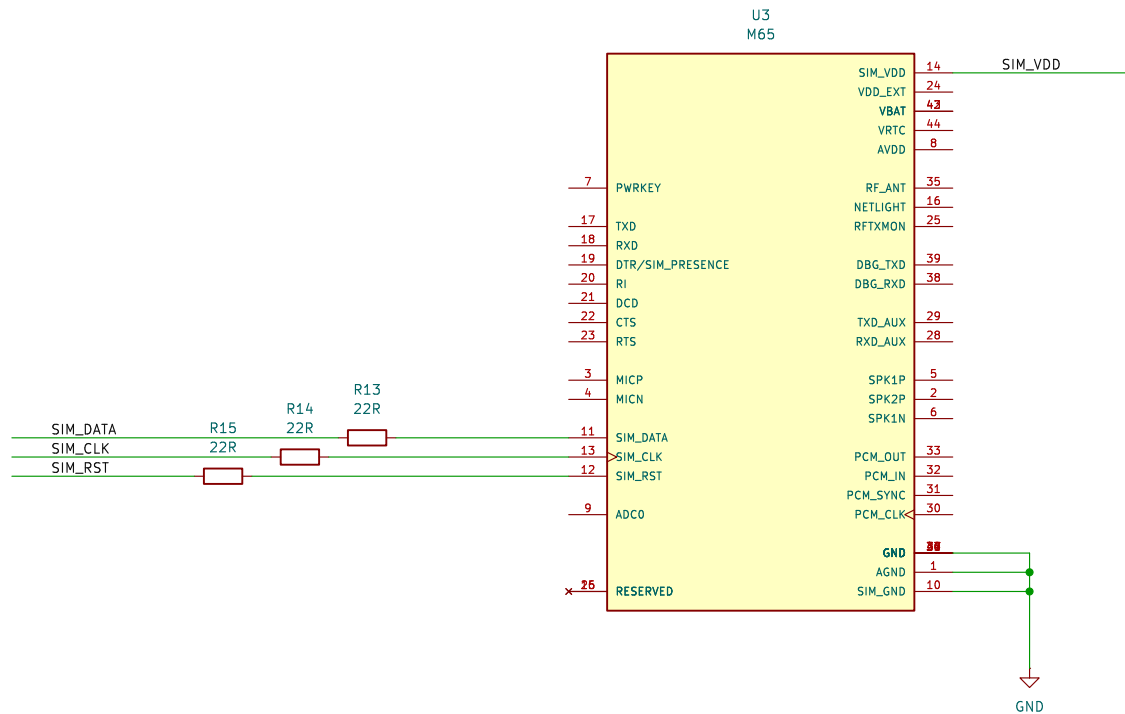
SX1272 LoRaWAN IC option



RN2903 LoRa module option



GSM/GPRS 2G Comms



Sheet: /quectel-m65-1/
File: quectel-m65-1.kicad_sch

Title:

Size: A3

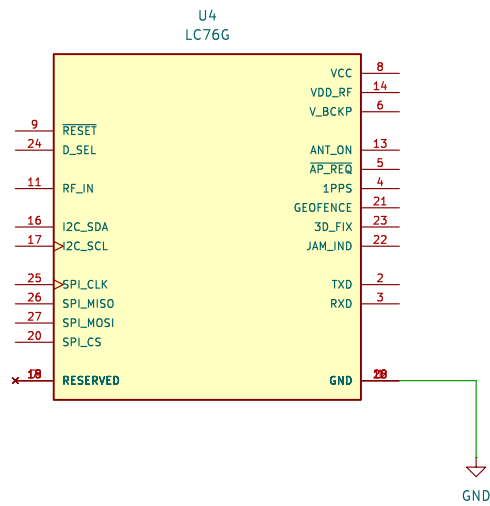
Date:

Rev:

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GNSS



Sheet: /GNSS/
File: gnss.kicad_sch

Title:

Size: A3

Date:

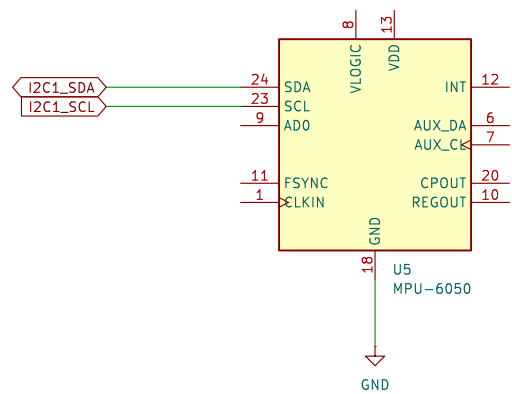
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Sensors

MPU-6050



AMG8833

