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

File: gnss.kicad_sch

sensors-1

File: sensors-1.kicad_sch

google-tpu-coral-1

File: google-coral-tpu-1.kicad_sch

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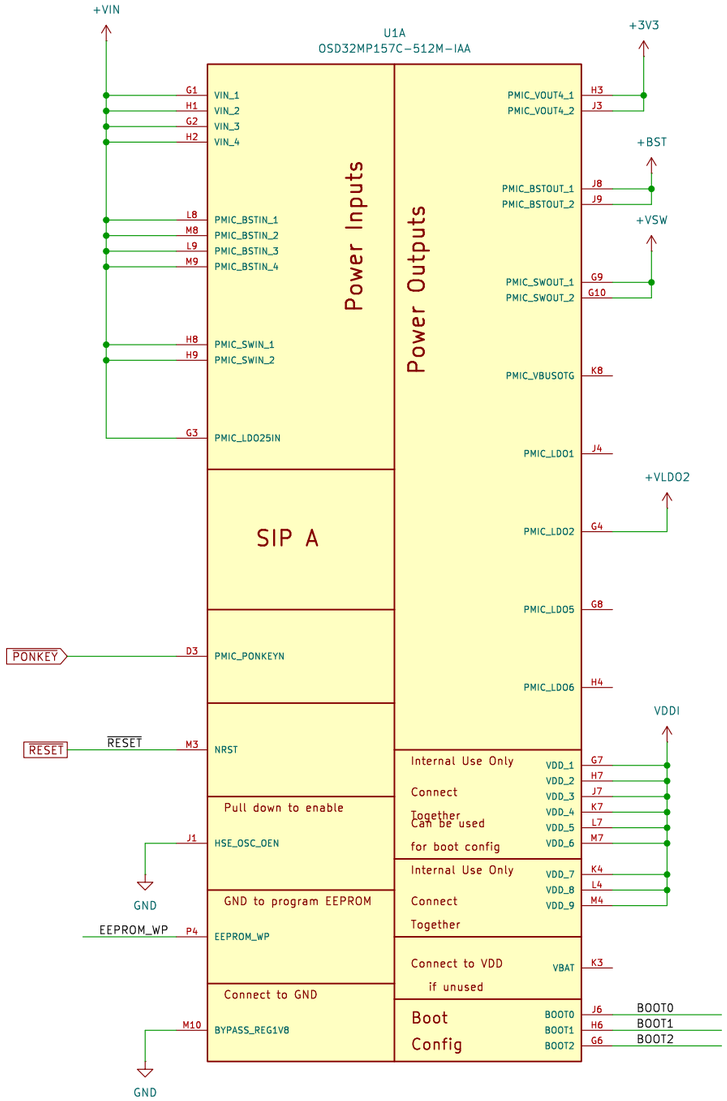
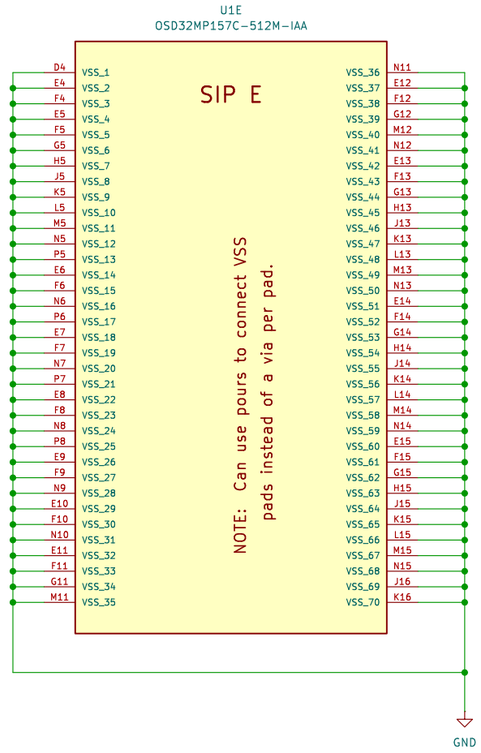
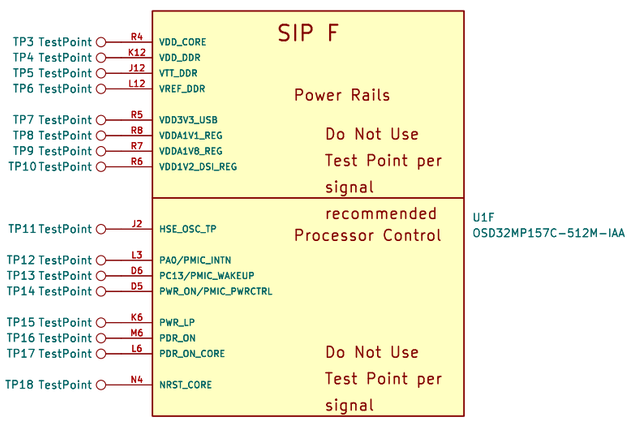
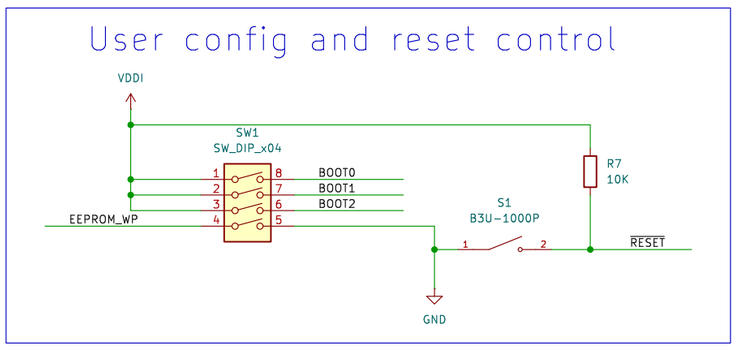
KiCad E.D.A. 8.0.8		Id: 1/12

OSD32MP1 power









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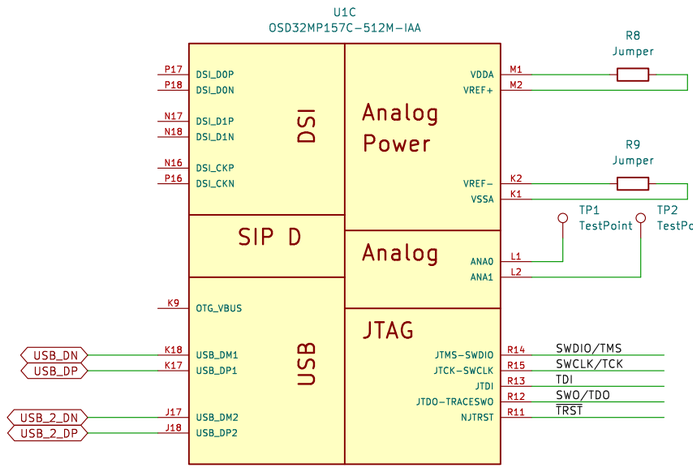
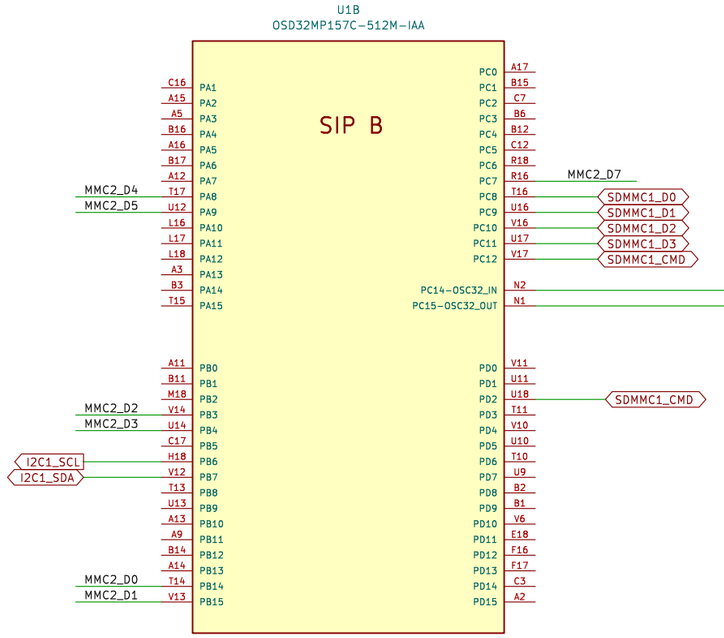
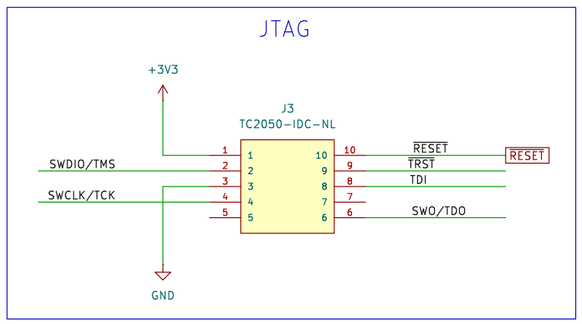
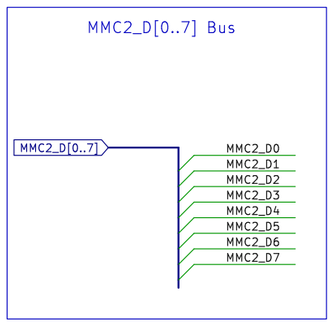
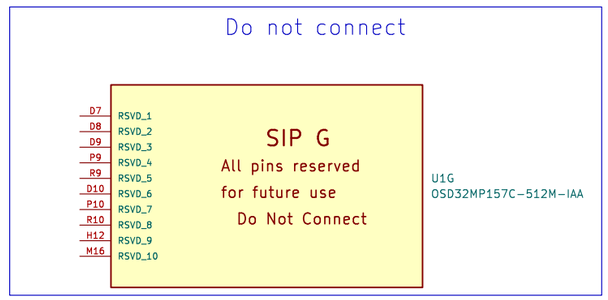
OSD32MP1











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OSD32MP1

U1D
OSD32MP157C-512M-IAA

SIP C

U7	PE0	PH2	B13
T7	PE1	PH3	C13
A6	PE2	PH4	U6
T12	PE3	PH5	T6
R17	PE4	PH6	B5
V15	PE5	PH7	C5
T9	PE6	PH8	T4
D17	PE7	PH9	V3
D18	PE8	PH10	U3
E16	PE9	PH11	V2
E17	PE10	PH12	U2
V5	PE11	PH13	U1
U5	PE12	PH14	T1
T5	PE13	PH15	T2
V4	PE14		
U4	PE15		
U8	PF0	PI0	T3
V8	PF1	PI1	R1
T18	PF2	PI2	R2
C6	PF3	PI3	R3
V7	PF4	PI4	P1
T8	PF5	PI5	P2
F18	PF6	PI6	P3
G16	PF7	PI7	N3
G17	PF8	PI8	C1
G18	PF9	PI9	C2
H16	PF10	PI10	B4
B18	PF11	PI11	C4
C11	PF12		
A10	PF13		
B10	PF14		
C10	PF15		
C8	PG0	PZ0	F1
B8	PG1	PZ1	F2
A8	PG2	PZ2	F3
C9	PG3	PZ3	E1
B9	PG4	PZ4/PMIC_SCL	E2
C15	PG5	PZ5/PMIC_SDA	E3
U15	PG6	PZ6	D1
H17	PG7	PZ7	D2
D16	PG8		
M17	PG9		
C18	PG10		
C14	PG11		
A4	PG12		
B7	PG13		
A7	PG14		
V9	PG15		

MMC2_CLK
MMC2_D6
MMC2_CMD

MMC2_D[0..7] Bus

MMC2_D[0..7]
MMC2_D0
MMC2_D1
MMC2_D2
MMC2_D3
MMC2_D4
MMC2_D5
MMC2_D6
MMC2_D7

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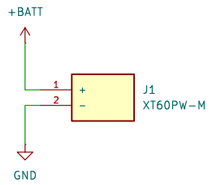
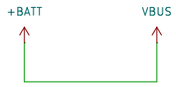
KiCad E.D.A. 8.0.8 | Id: 4/12

Battery Power
バッテリー電源

2S–6S LiPo battery





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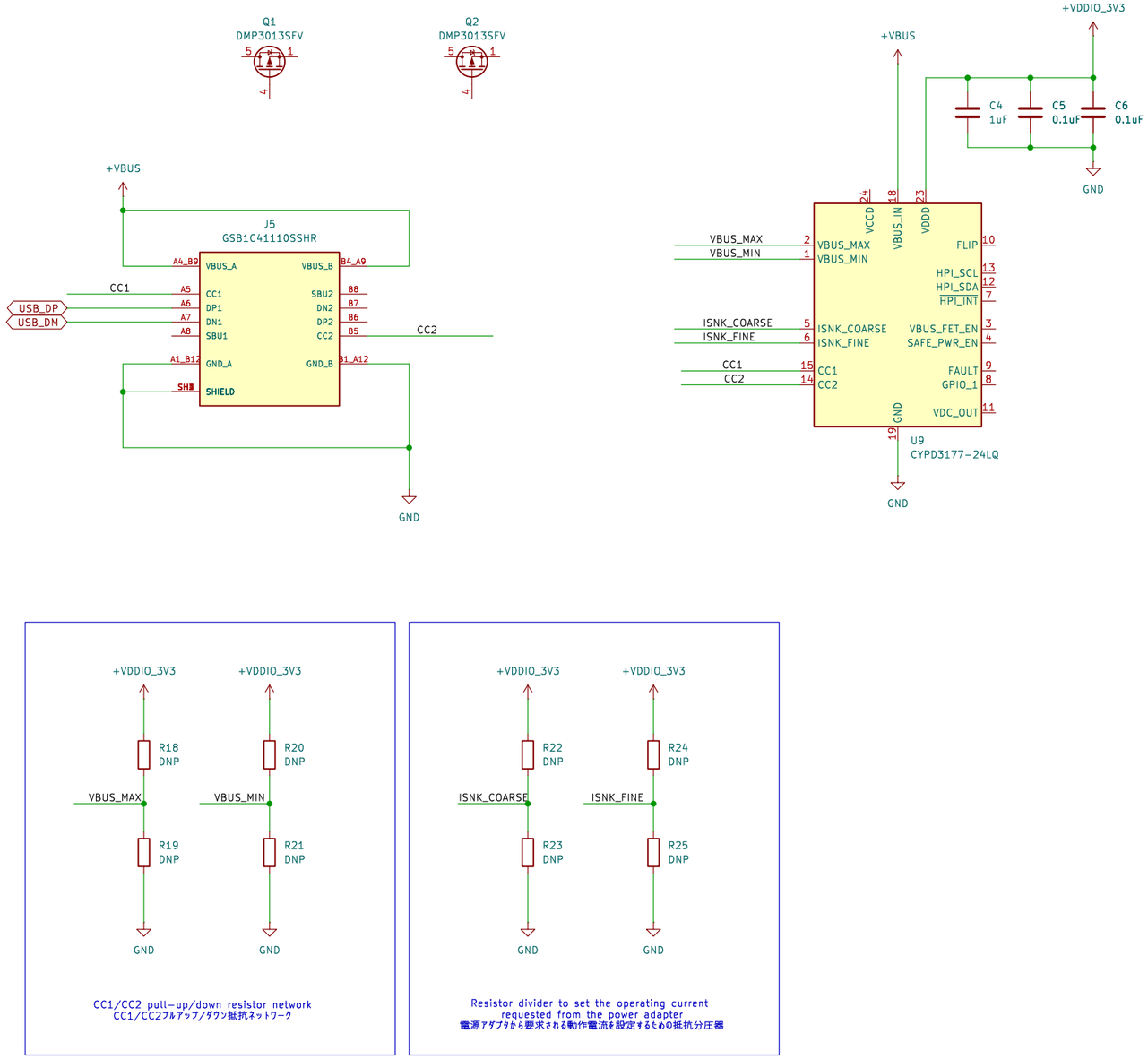

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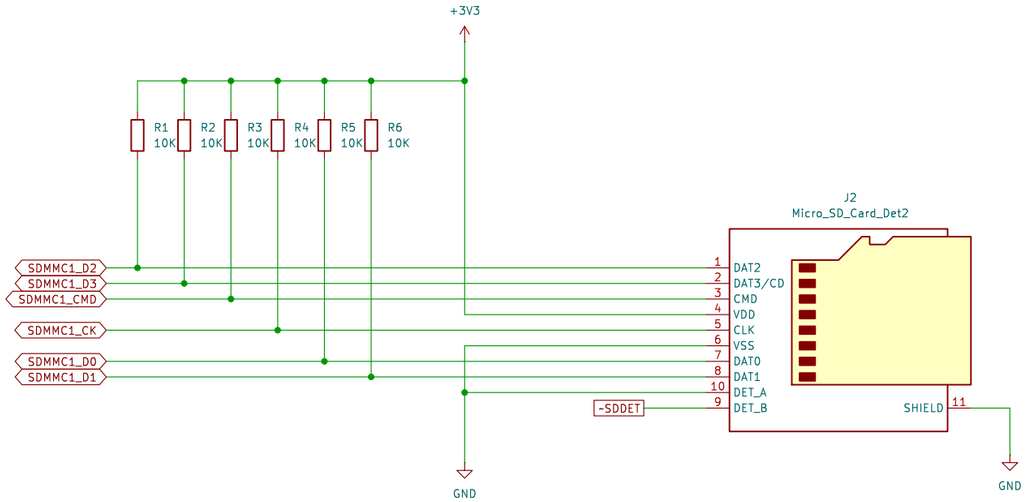
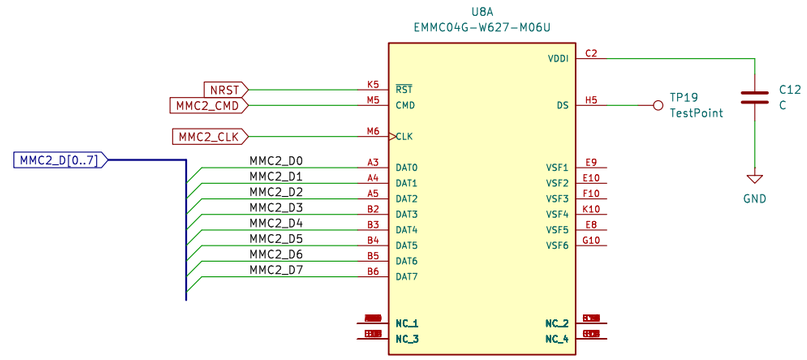
KiCad E.D.A. 8.0.8		Id: 6/12

Storage
貯蔵

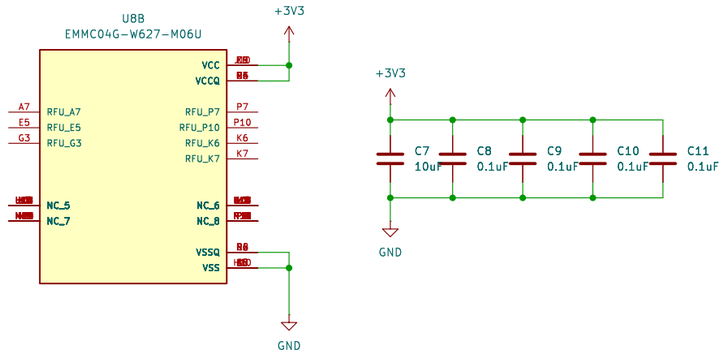
SD card

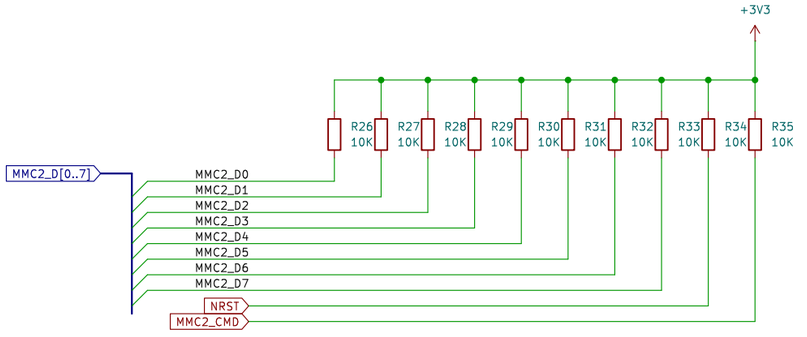


eMMC



eMMC power





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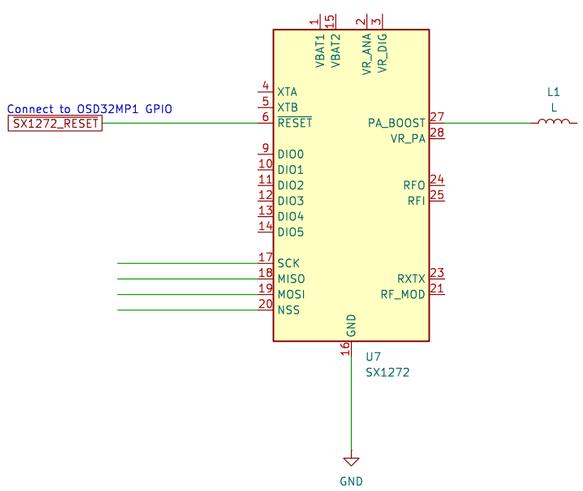
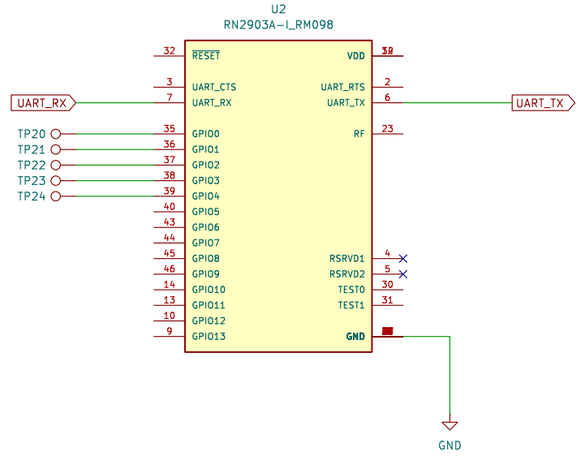
Long range radio

SX1272 LoRaWAN IC option



RN2903 LoRa module option



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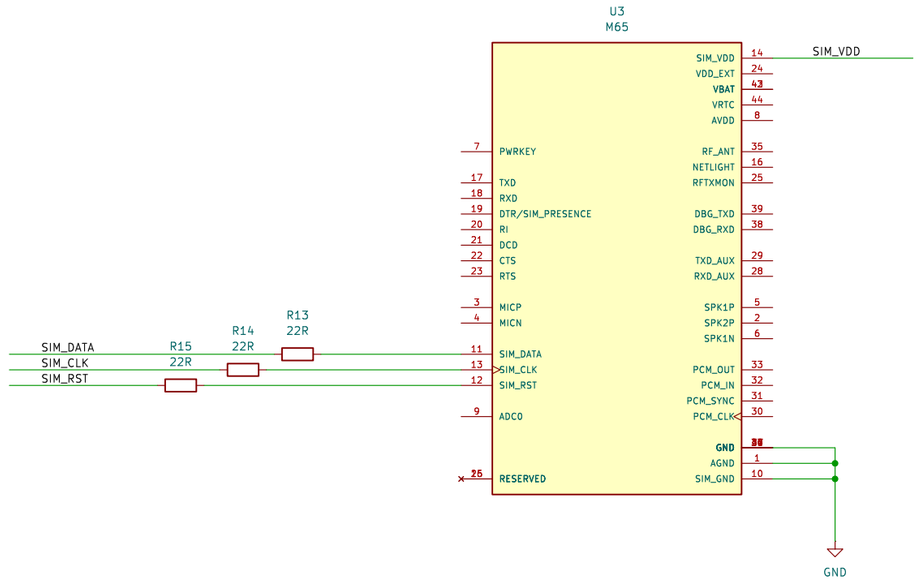
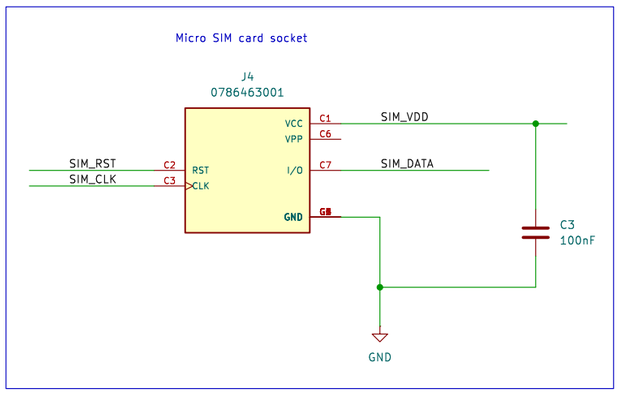
KiCad E.D.A. 8.0.8		Id: 8/12

GSM/GPRS 2G Comms





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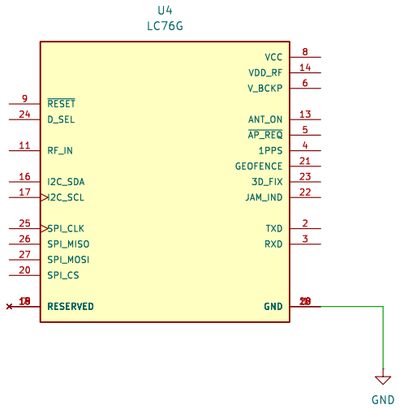
GNSS



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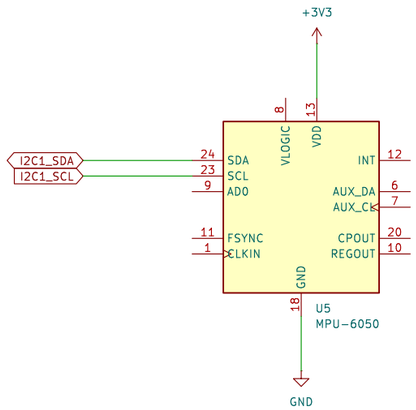
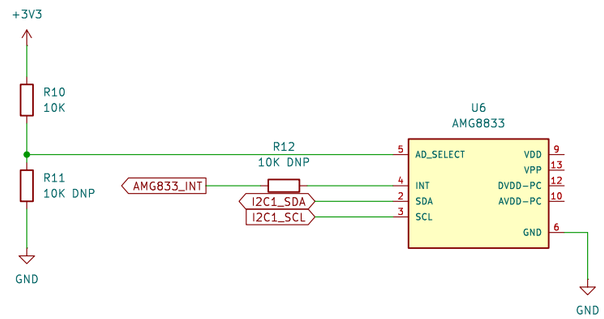
Sensors
センサー

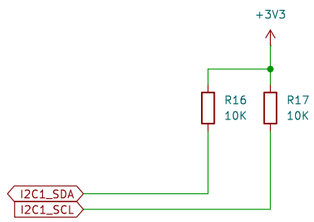
MPU-6050



AMG8833



I2C1 Pull-up resistor



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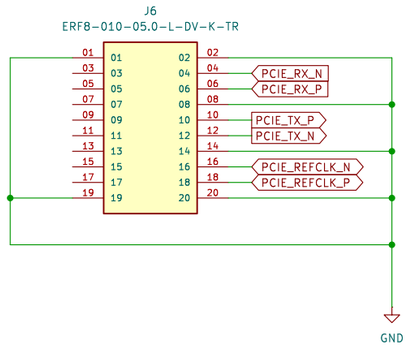
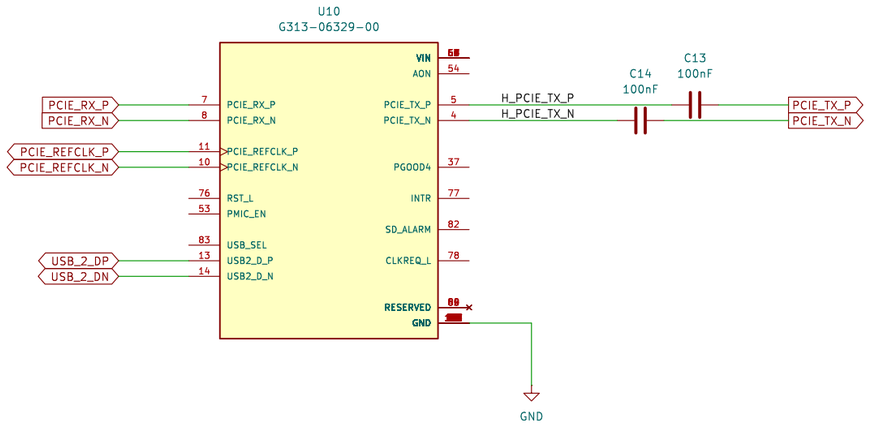
Google Coral edge tensor processing unit
Google Coral エッジテンソル処理ユニット

Board to board mezzanine connector
基板対基板メザニンコネクタ



Used to expose PCIe interface on Google Coral

Google Coral Edge TPU



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