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: battery-power.kicad_sch
storage

File: storage.kicad_sch
long-range-radio-1

File: long-range-radio-1

File: quectel-m65-1.kicad_sch
gws_1

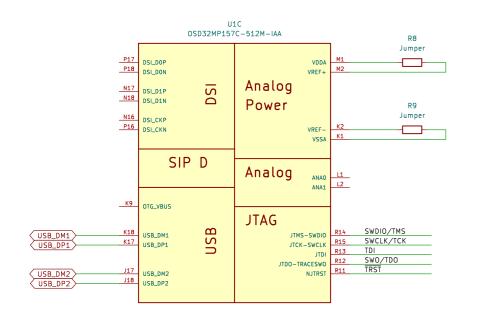
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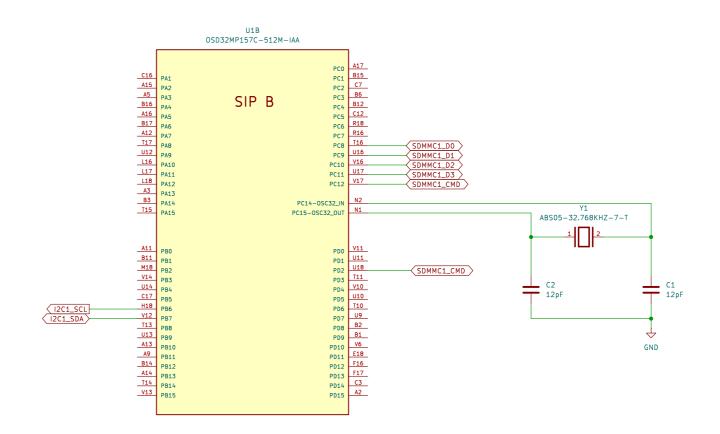
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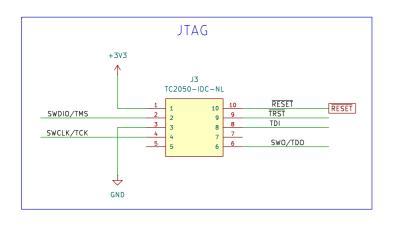
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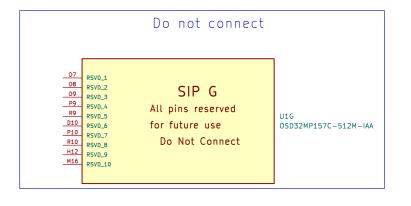
OSD32MP1 power +VIN U1E OSD32MP157C-512M-IAA +3V3 U1A OSD32MP157C-512M-IAA VSS_36 N11 VSS_37 E12 SIP E PMIC_VOUT4_2 VSS_38 VSS_39 G12 +BST VSS_41 N12 Power Inputs PMIC_BSTOUT_1 VSS_43 Power Outputs PMIC_BSTIN_1 +VSW VSS_45 VSS_46 H13 VSS_10 VSS_11 VSS_12 VSS_13 VSS_14 M8 PMIC_BSTIN_2 L9 PMIC_BSTIN_3 M9 PMIC_BSTIN_4 P5 E6 F6 VSS_48 L13 PMIC_SWOUT_1
PMIC_SWOUT_2 VSS_50 N13 VSS_15 VSS_16 VSS_51 VSS_52 F14 VSS_17 VSS_18 PMIC_SWIN_1 VSS_53 H9 PMIC_SWIN_2 NOTE: Can use pours to pads instead of a via VSS_19 VSS_20 PMIC_VBUSOTG K8 VSS_55 J14 VSS_22 VSS_23 VSS_57 F8 PMIC_LD025IN N8 P8 VSS_59 N14 VSS_24 VSS_25 VSS_60 VSS_61 F15 +VLD02 VSS_26 VSS_27 VSS_62 F10 VSS_29 F10 VSS_30 VSS_64 SIP A N10 VSS_30 VSS_31 VSS_32 VSS_33 VSS_34 VSS_35 VSS_66 VSS_67 VSS_68 N15 VSS_69 J16 PMIC_LD05 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 R4 VDD_CORE VDD_DDR VTT_DDR VREF_DDR Config Power Rails SW1 SW_DIP_x04 R5
R8
VDD3V3_USB
VDDA1V1_REG
VDDA1V8_REG
VDD1V2_DSI_REG R7 10K Do Not Use Test Point per S1 B3U-1000P signal RESET recommended J2 HSE_OSC_TP OSD32MP157C-512M-IAA Processor Control L3 PAO/PMIC_INTN D6
PC13/PMIC_WAKEUP
PWR_ON/PMIC_PWRCTRL GND K6
M6
L6
PWR_LP
PDR_ON
PDR_ON_CORE Do Not Use Test Point per NRST_CORE signal recommended Sheet: /osd32mp1-1-power/ File: osd32mp1-1-power.kicad_sch Title: Size: A3 Date: KiCad E.D.A. 8.0.4

05D32MP1









	Sheet: /osd32mp1-2/ File: osd32mp1-2.kicad_sch								
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05D32MP1 U1D OSD32MP157C-512M-IAA SIP C PH2 B13 C13 PH4 U6 PH5 T6 PH6 B5 PH7 C5 PH8 T4 U3 PH10 U2 PH11 U2 PH11 T1 PH15 T2 PIO T3
PI1 R1
PI2 R2
PI3 R3
PI4 P1
PI5 P2
PI6 P3
PI7 N3
PI8 C1
PI9 C2
PI10 B4
PI11 C4 V8 PF0
V8 PF1
T18 PF2
C6 PF3
V7 PF4
B PF5
F18 PF5
G16 G16
G17
G18
PF7
G18
B18 PF1
C11 PF12
A10 PF13
B10 PF14
C10 PF15 C8 PG0

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H17 PG7

D16 PG8

M17 PG9

C14 PG11

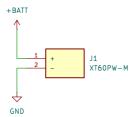
A4 PG12

B7 PG14

V9 PG15 Sheet: /osd32mp1-3/ File: osd32mp1-3.kicad_sch Title: Size: A3 Date: KiCad E.D.A. 8.0.4 Rev: Id: 4/11

Battery Power バッテリー電源

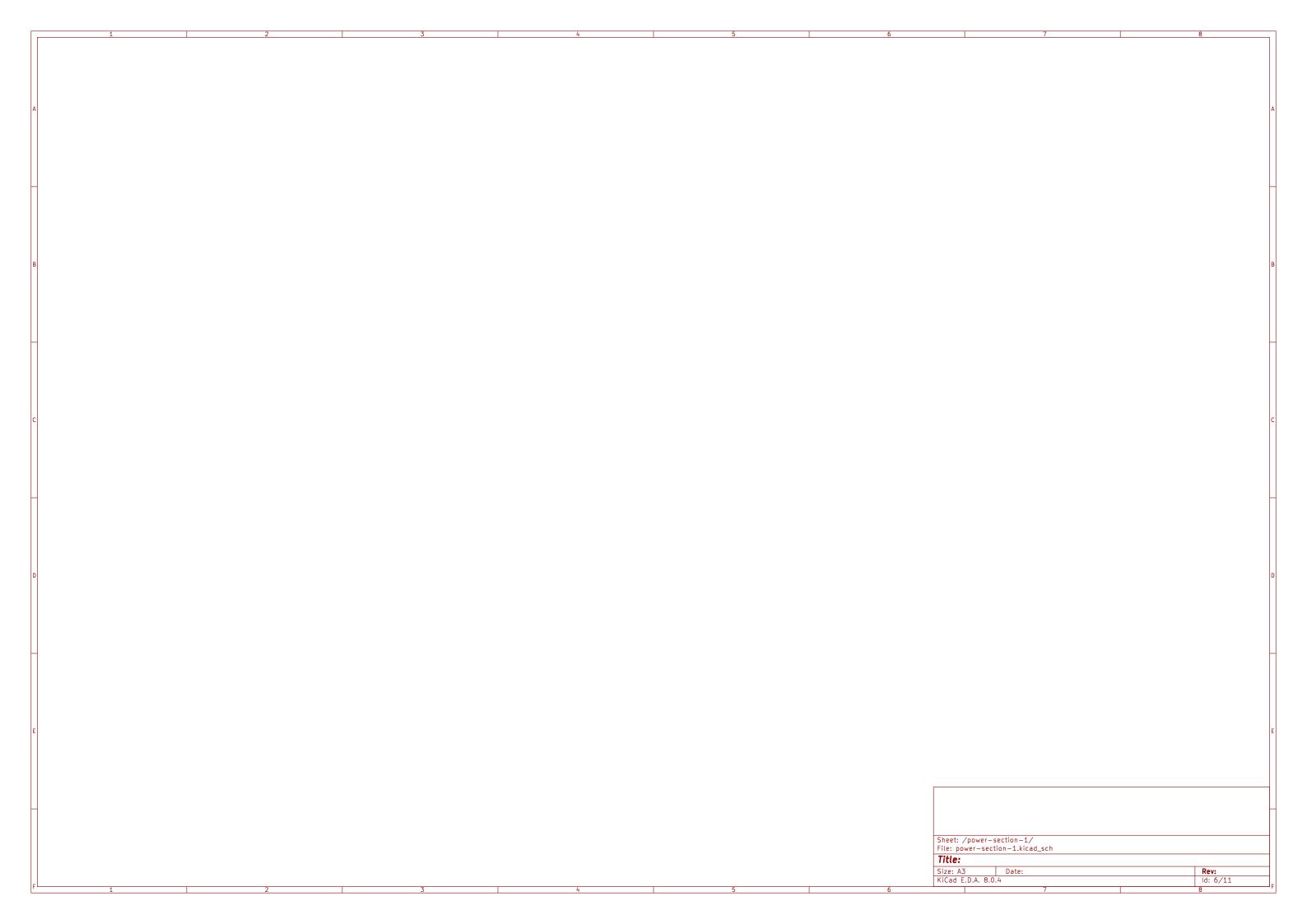
2S-6S LiPo battery



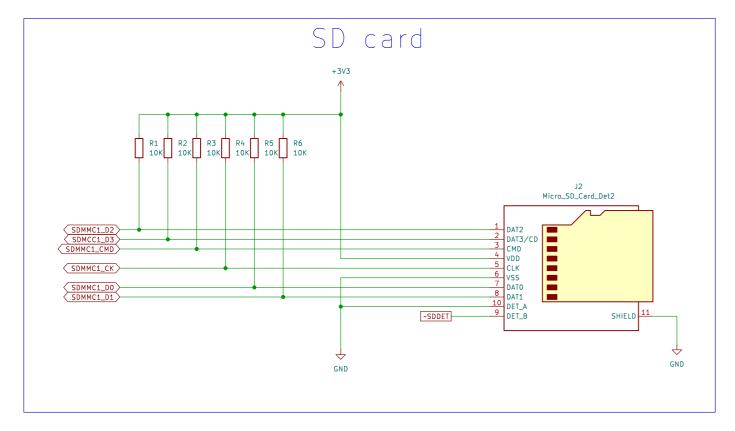


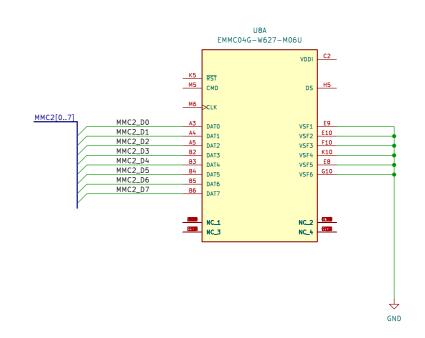
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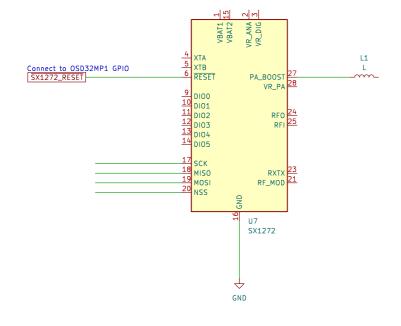
Storage



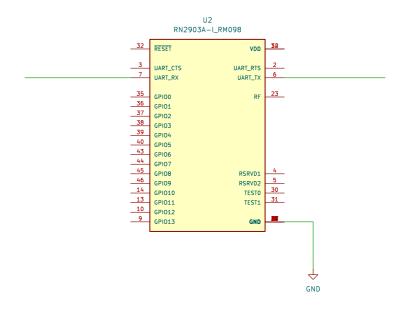


Long range radio

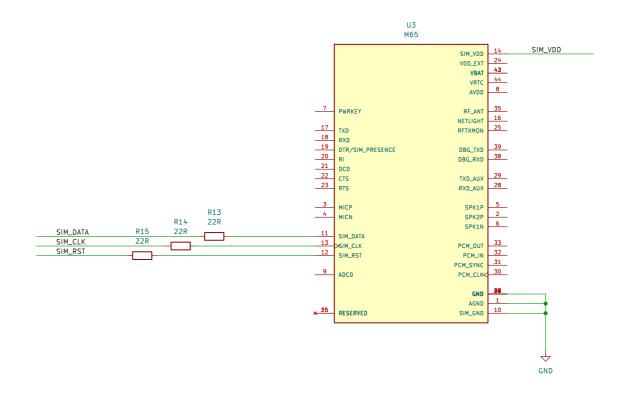
SX1272 LoRaWAN IC option

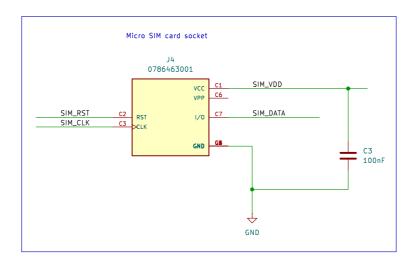


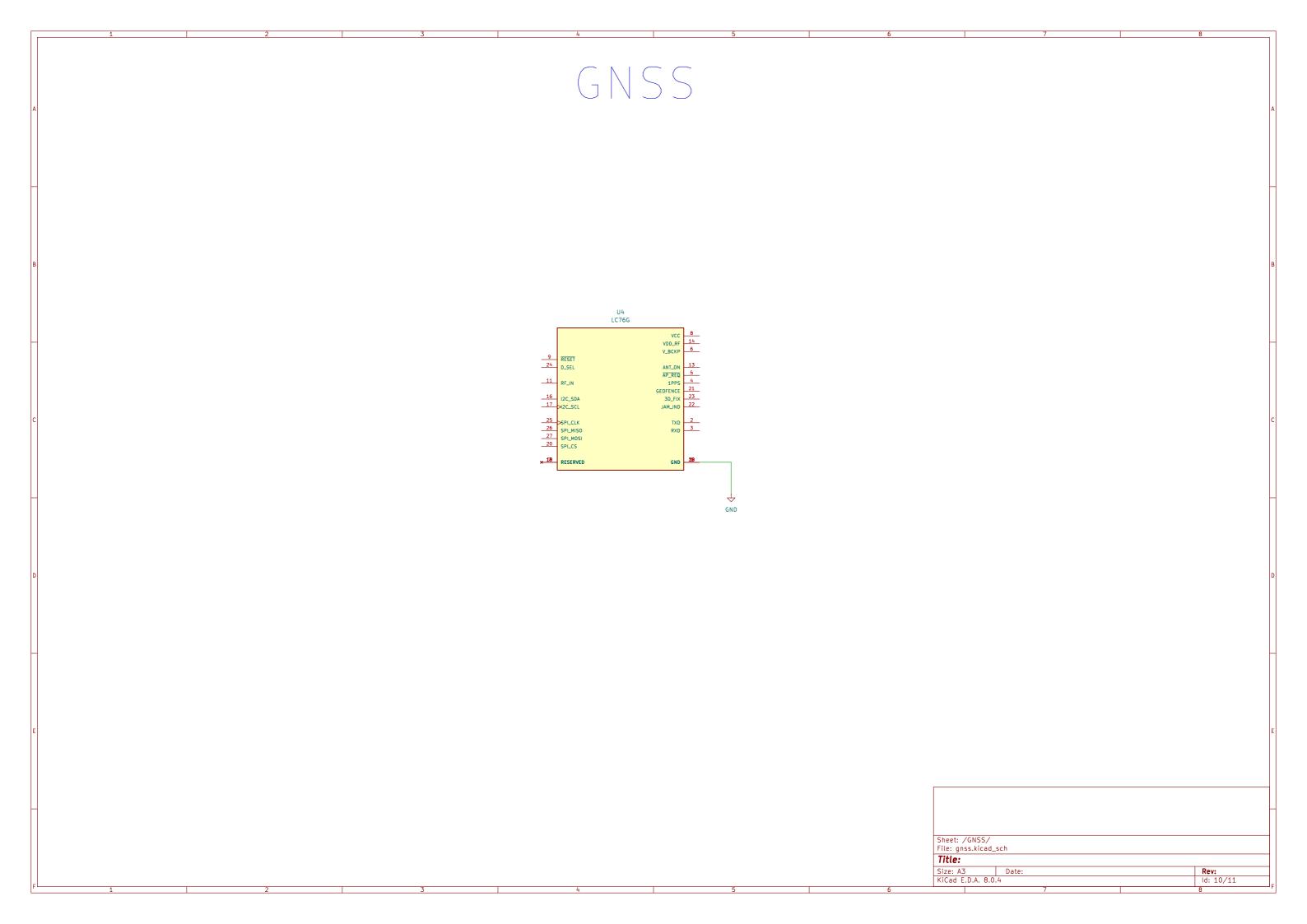
RN2903 LoRa module option



GSM/GPRS 2G Comms







Sensors tyt-

