

STM32L476RGT6

PT5636_SM43J_SMTR_LFS

S1

+3.3V

R1 10k

NRST

C10 1u

GND

SolderJumper_3_Open

+3.3V

R2 10k

JP1

GND

BOOT0

+3.3V

C1 4.7u

C2 100n

C7 100n

C8 100n

C9 100n

GND

+5V

+3.3V

BATT

5V

3V3

BAT+

GND

RTC_BAT

NRST

BOOT0

STM32L476RGTx U1

PA0

PA1

PA2

PA3

PA4

PA5

PA6

PA7

PA8

PA9

PA10

PA11

PA12

PA13

PA14

PA15

PB0

PB1

PB2

PB3

PB4

PB5

PB6

PB7

PB8

PB9

PB10

PB11

PB12

PB13

PB14

PB15

UART_TX

UART_RX

BUS_RX1

BUS_TX1

RADIO1_NSS

SPI1_SCK

SPI1_MISO

SPI1_MOSI

GPS_EXTINT

EXT_GPS_TX

EXT_GPS_RX

CAN_RX

CAN_TX

SWDIO

SWCLK

GPS_RESET

RADIO1_DIO3

RADIO1_DIO1

RADIO1_NRST

RADIO1_BUSY

RADIO1_DIO4

RADIO1_DIO3

EXT_GPS_GPIO2

SD_CARD_CD

SD_CARD_CMD

SD_CARD_CLK

SD_CARD_DAT0

SD_CARD_DAT1

SD_CARD_DAT2

SD_CARD_DAT3

FLASH_NSS

FLASH_SPI_MOSI

FLASH_SPI_MISO

FLASH_SPI_CLK

FLASH_NRST

EXT_BUZZER

CAN_TX

CAN_RX

CAN_H

CAN_L

DEBUG_LED

R4 1k

D1 LED

GND

RTC_BAT

BAT54CW

D3

C18 100n

GND

BAT2 Battery_Cell

+3.3V

C3 24p

HSE_IN

CrystaL_GND24

16M1

GND

24p

C4

HSE_OUT

R3 390

GND

C5 7p

LSE_IN

Y1 32,768k

GND

7p

C6

LSE_OUT

External GPS Connector

J3

Conn_01x09_Male

+3.3V

EXT_GPS_TX

GND

EXT_GPS_RX

EXT_GPS_GPIO2

EXT_GPS_GPIO1

+5V

Programming Connector

J2

Conn_01x12_Male

+3.3V

UART_RX

SWCLK

SWDIO

NRST

BOOT0

SWO

GND

Stack Connector

ESQ-120-39-G-D

J1

GND

GND

BAT+

5V

3V3

BUS_SDA1

BUS_SCL1

BUS_TX1

GND

GND

BAT+

5V

3V3

CAN_H

CAN_L

BUS_RX1

Hierarchical sheets

Sheet: Telecommunications

GPS_EXTINT

GPS_RESET

GPS_TIMEPULSE

GPS_TX

GPS_RX

RADIO1_NSS

RADIO1_NRST

RADIO1_BUSY

RADIO1_DIO1

RADIO1_DIO3

RADIO2_NSS

RADIO2_NRST

RADIO2_BUSY

RADIO2_DIO1

RADIO2_DIO3

File: Telecommunications.sch

Sheet: Peripherals

SD_CARD_CD

SD_CARD_CMD

SD_CARD_CLK

SD_CARD_DAT0

SD_CARD_DAT1

SD_CARD_DAT2

SD_CARD_DAT3

FLASH_NSS

FLASH_SPI_MOSI

FLASH_SPI_MISO

FLASH_SPI_CLK

FLASH_NRST

EXT_BUZZER

CAN_TX

CAN_RX

CAN_H

CAN_L

File: Peripherals.sch

Sheet: /

File: Caurin v.2.0.sch

Caurin v.2.0

Title:

Size: A4

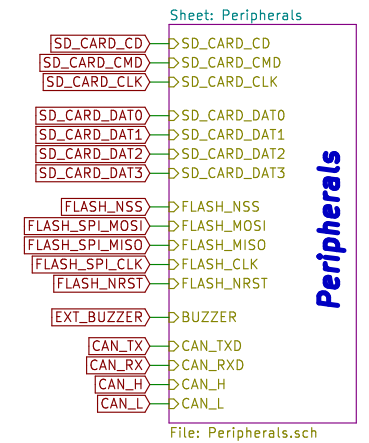
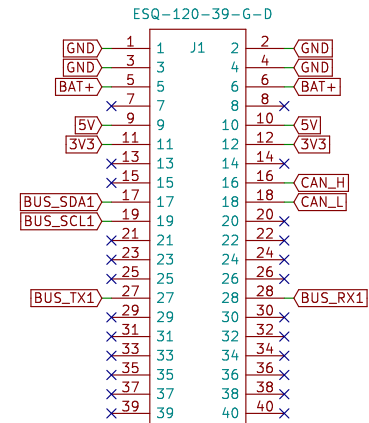
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KiCad E.D.A. kicad (5.1.10)-1

Rev:

Id: 1/3

Hieranchical sheets

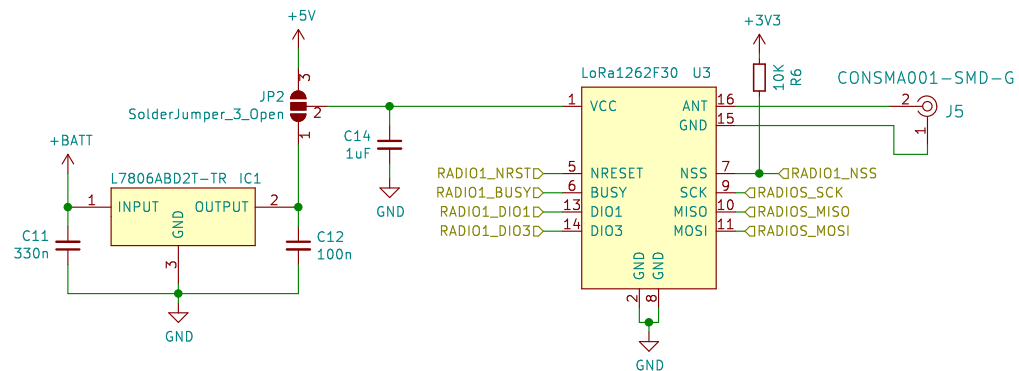


Peripherals

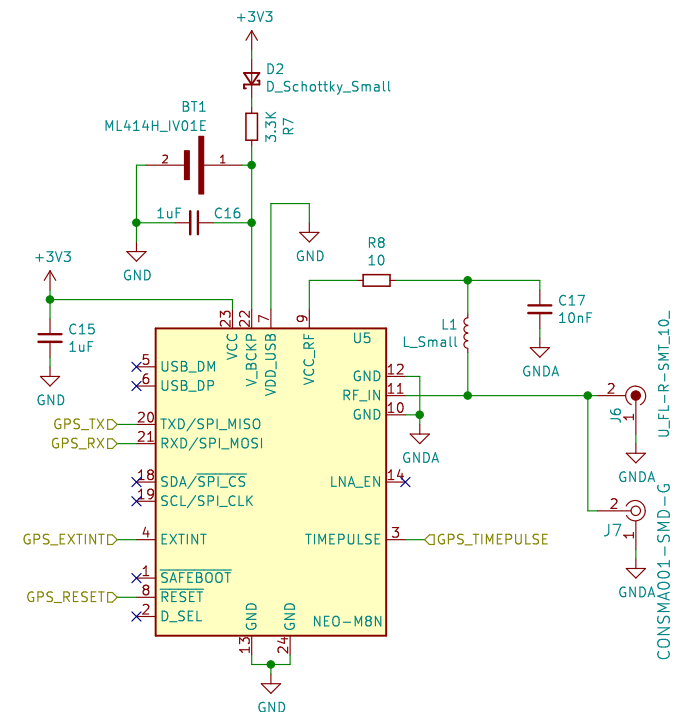
Caurin v.2.0

Rev:
Id: 1/3

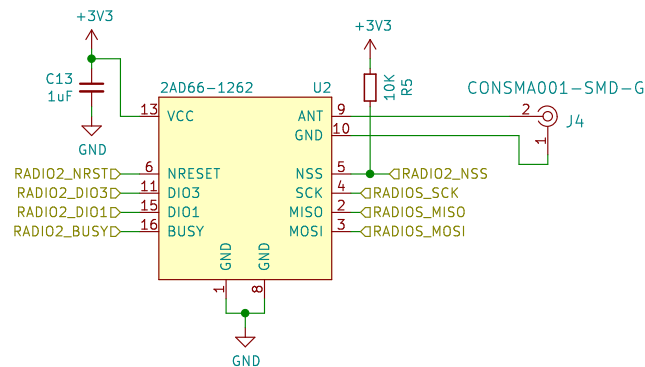
LoRa & (G)FSK 32dBm Radio



Geopositioning System



LoRa & (G)FSK 22dBm Radio



Sheet: /Telecommunications/
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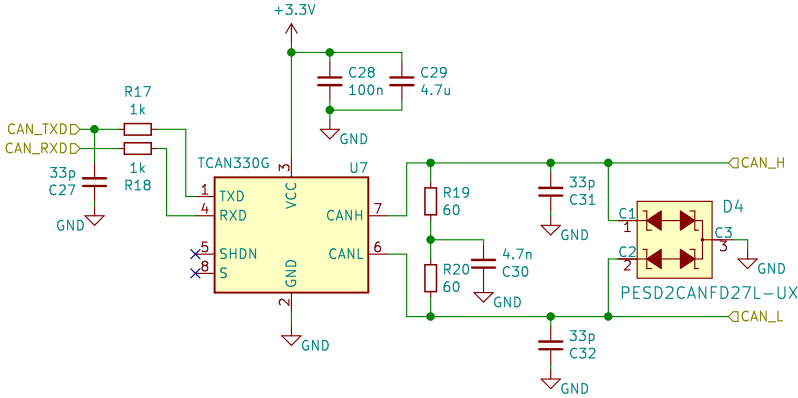
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KiCad E.D.A. kicad (5.1.10)-1

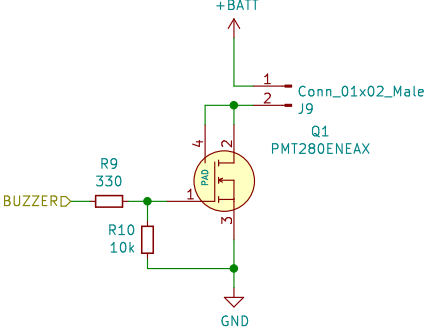
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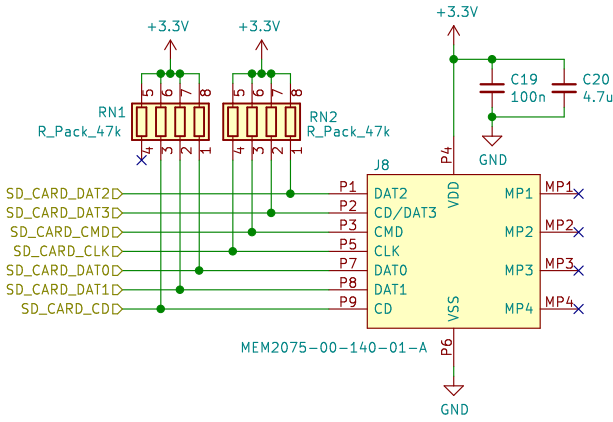
CAN Transclever



External Buzzer Mosfet



SD Card



Flash Memory – 128Mb

