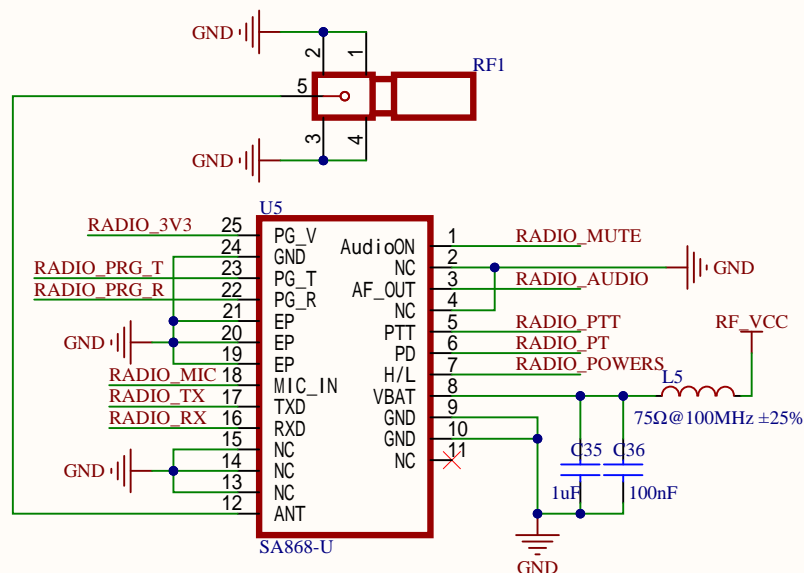


PMU

Title			PCB_PMU_LILYGO		
Size	Number			Revision	
A4				V1.0	
Date:	6/08/2023			Sheet of	2/6
File:	C:\Users\j\2 PMU\SchDoc			Drawn By:	LewisHe

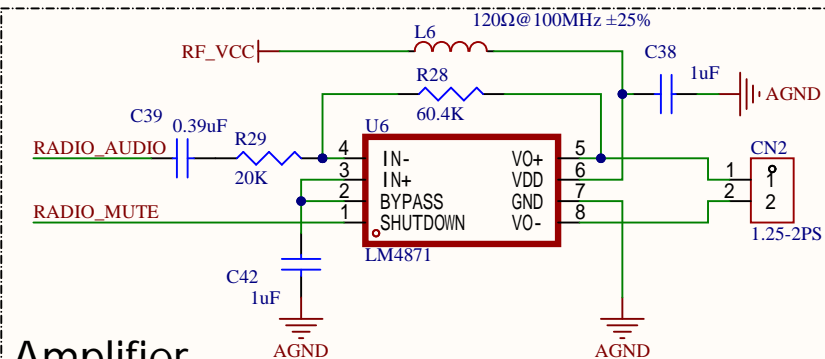
A



Default Low Power

Radio Module

C



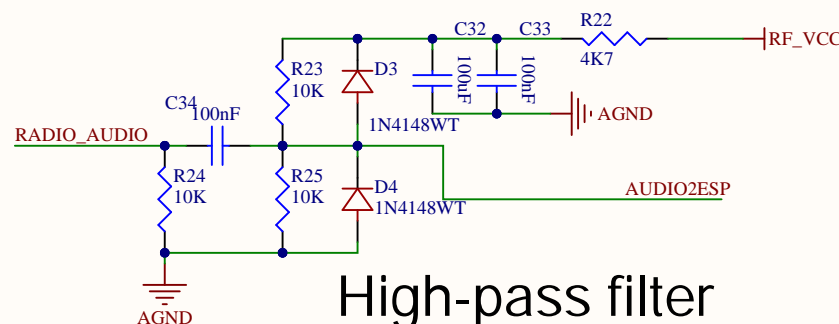
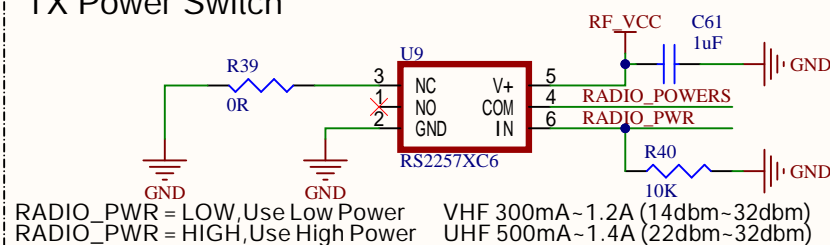
Amplifier

D

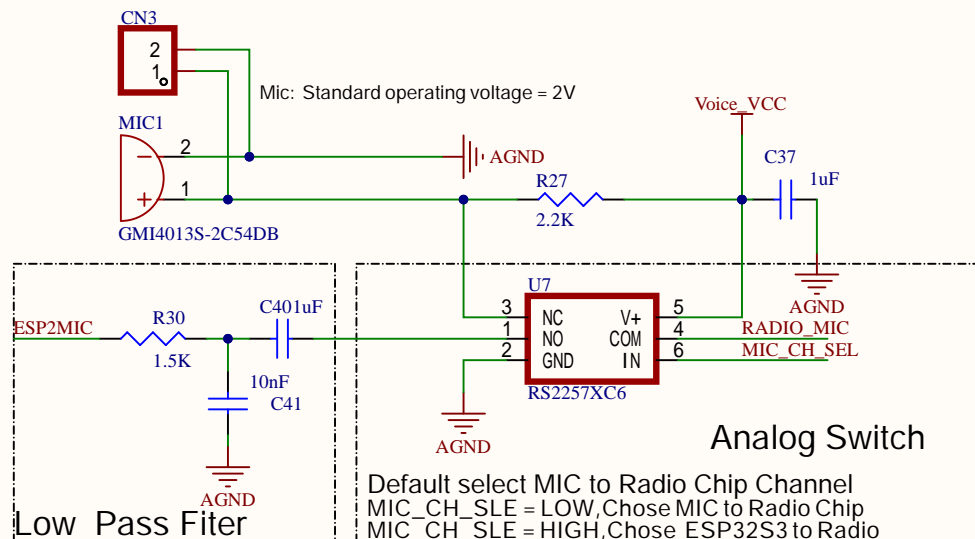


Consumption current and power are for reference only, subject to actual conditions

TX Power Switch



High-pass filter



Low Pass Filter

Analog Switch

Title

PCB RADIO LILYGO

Size

Number

Revision

A

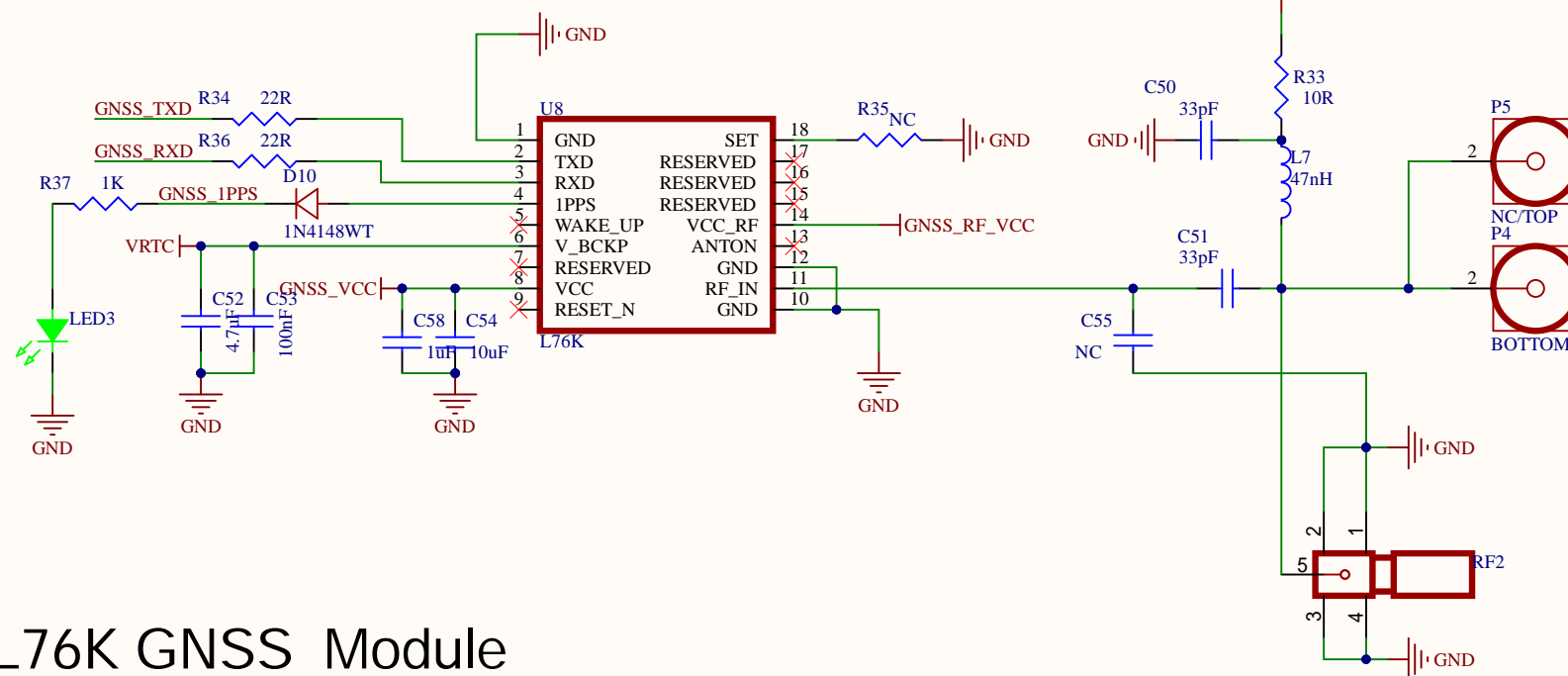
V1.0

Date: 6/08/2023

Sheet of 3/6

File: C:\Users\...\3.RADIO.SchDoc

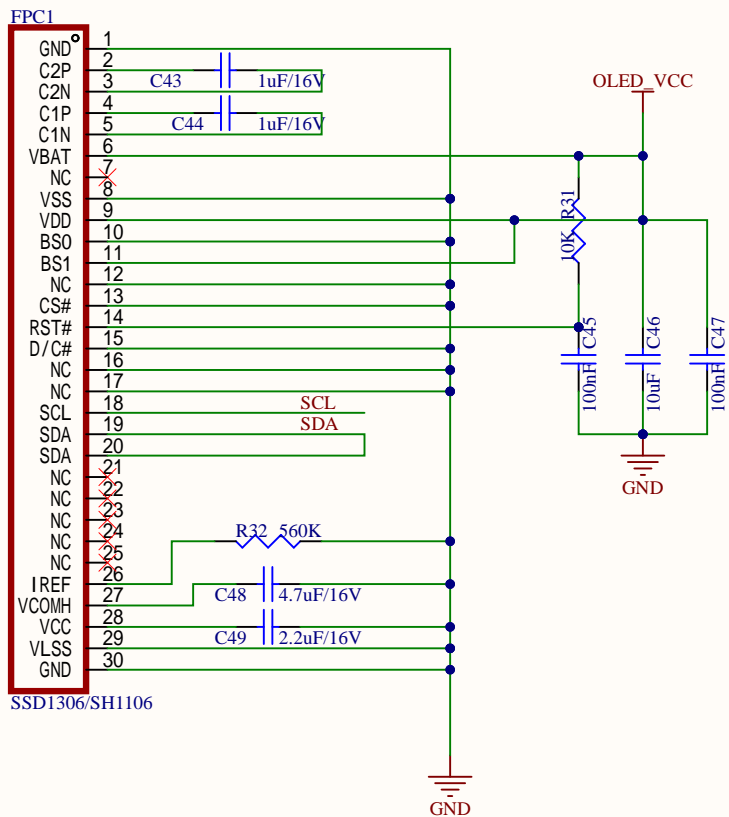
Drawn By: LewisHe



L76K GNSS Module

R34 = 0R, Select GPS + GLONASS
R34 = NC, Select BeiDou + GPS

Title			PCB GNSS LILYGO	
Size	Number		Revision	
A			V1.0	
Date:	6/08/2023		Sheet of	4/6
File:	C:\Users\...\4.GNSS.SchDoc		Drawn By:	LewisHe



OLED Display

Slave 7 bit address : 0x3C

Title			PCB_DISPLAY_LILYGO	
Size	Number		Revision	
A			V1.0	
Date:	6/08/2023		Sheet of	5/6
File:	C:\Users\...\5.DISPLAY.SchDoc		Drawn By:	LewisHe

RADIO_PTT	IO41
RADIO_PT	IO40
RADIO_PWR	IO38
RADIO_TX	IO48
RADIO_RX	IO39

Radio Pins

MIC_CH_SEL	IO17
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RTC_GPIO	IO4	PMU_IRQ
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Interrupt Wire

RTC_GPIO	IO8	SDA
RTC_GPIO	IO9	SCL

SPI_CS1	IO14
SD_CS	IO10
SD_MOSI	IO11
SD_SCK	IO12
SD_MISO	IO13

SPI1

RTC_GPIO	GNSS_RXD	IO6
RTC_GPIO	GNSS_TXD	IO5
RTC_GPIO	GNSS_IPPS	IO7

GNSS

RTC_GPIO	ENCODER_A	IO47
RTC_GPIO	ENCODER_S	IO21
RTC_GPIO	ENCODER_B	IO46

Encoder

RTC_GPIO	USER_BTN	IO3
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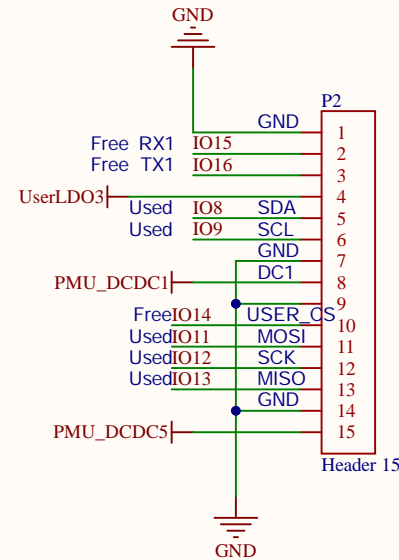
PIXES	IO42
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Other

ADC2_CH6	ESP2MIC	IO18
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ADC1_CH1	AUDIO2ESP	IO1
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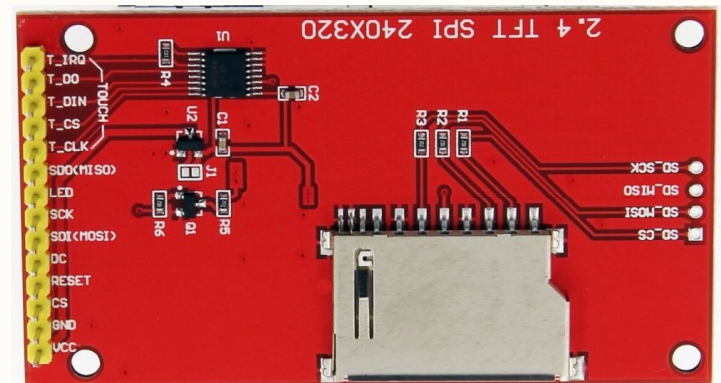
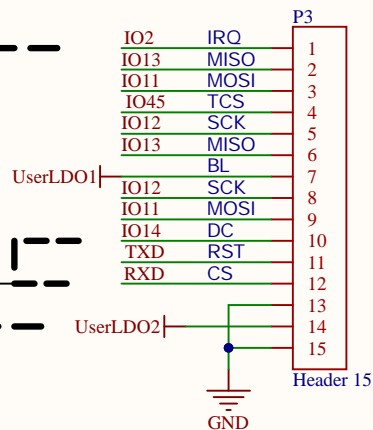
TFT Serial2



UART Wire SPI

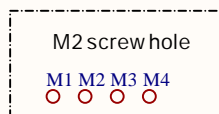


Compatible module order



See Datasheet 2.3.3 Restrictions for GPIOs and RTC_GPIOs: ADC2 - no restrictions, unless there is an on-going Wi-Fi connection. ADC2_CH... analog functions

External Pin Define



Title			PCB PINS LILYGO	
Size	Number	Revision		
A		V1.0		
Date:	6/08/2023	Sheet of	6/6	
File:	C:\Users\...\6.Pins.SchDoc	Drawn By:	LewisHe	