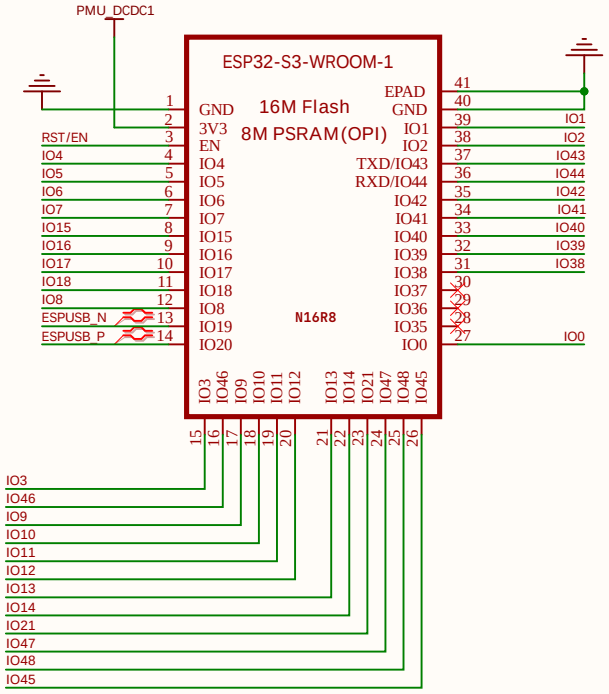
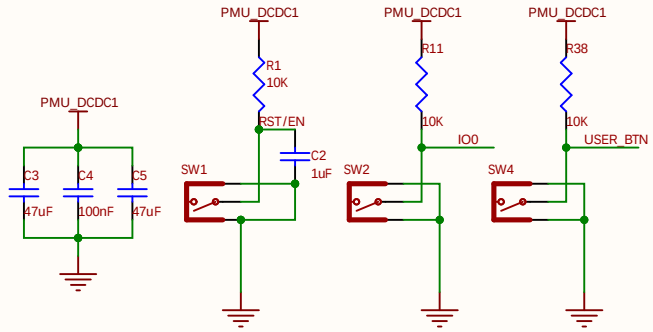
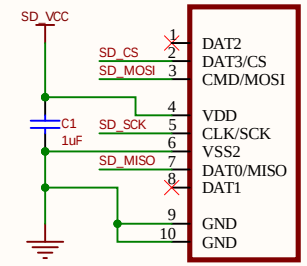
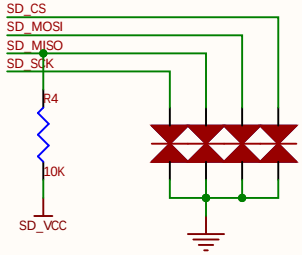




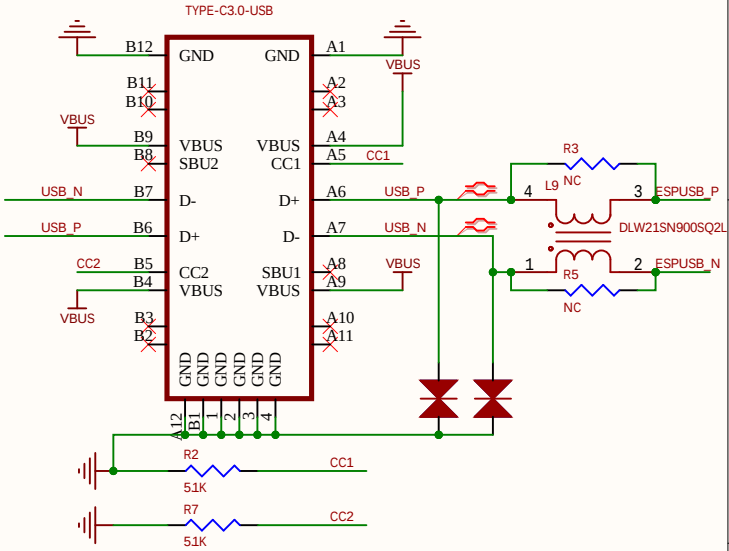
SOC

N16R8:Octal SPI occupies 5 more GPIOs than Quad SPI, namely GPIO33~GPIO37

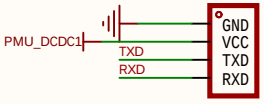




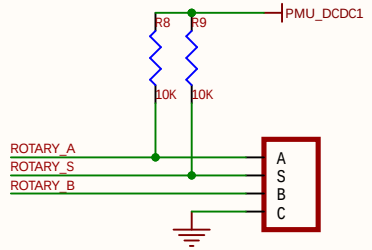
TF Card holder



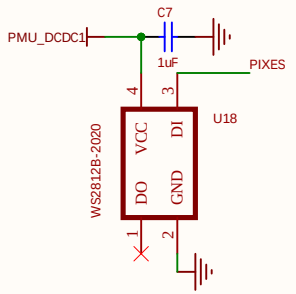
USB-C



External download

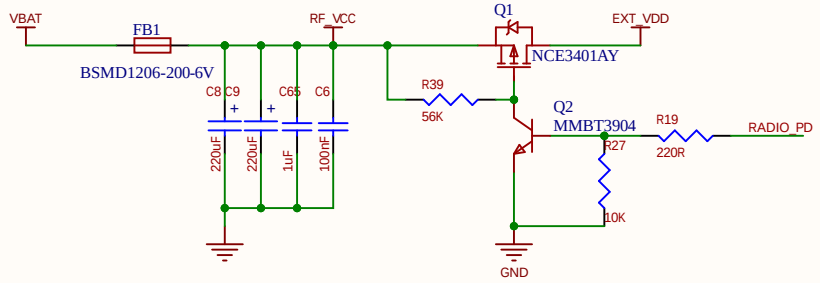


Encoder



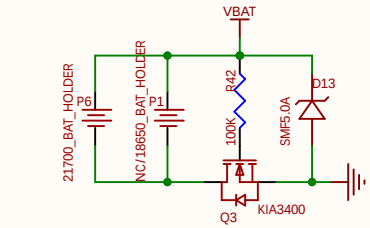
Pixels

Title	PCB_SOC_LILYGO	
Size: A4	Number	Revision: V2.1
Date: 4/17/2024		Sheet of 1/7
File: C:\Users\..\1.SOC.SchDoc		Drawn By: LewisHe



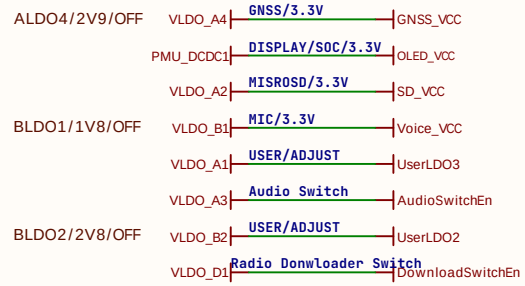
Radio Power

Rev2.1 version uses SA868 and needs to be powered by a battery, removing the DC power supply method of the Rev2.0 version. This method can reduce most power supply noise.

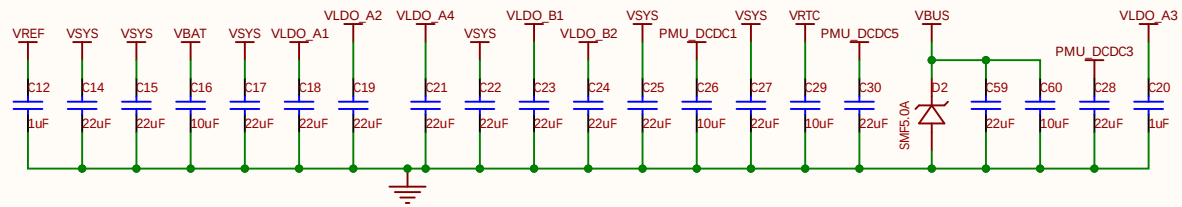


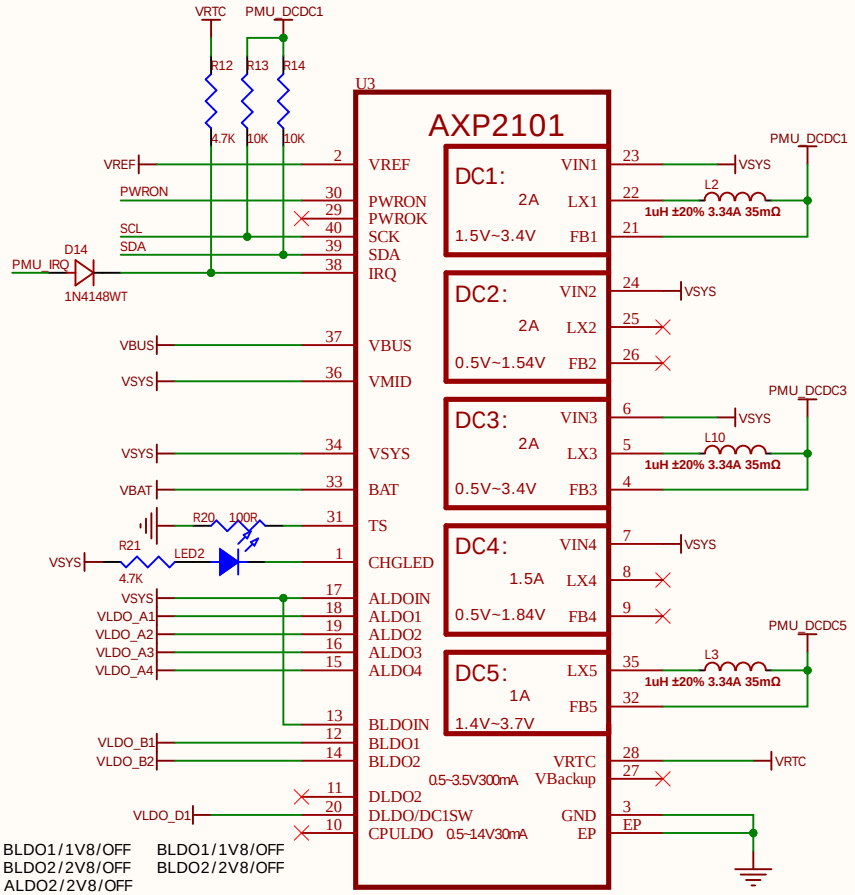
Use 21700 battery holder by default

Battery Input



Power Domain



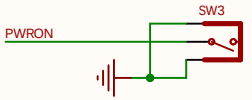


AXP2101

BLDO1/1V8/OFF
BLDO2/2V8/OFF
ALDO2/2V8/OFF
ALDO1/1V8/ON
ALDO3/3V3/ON
ALDO4/2V9/OFF
DC1/3V3/ON
DC2/0V9/ON
DC3/0V9/ON
DC4/1V1/ON
DC5/1V2/OFF
DLDO1/3V3/OFF

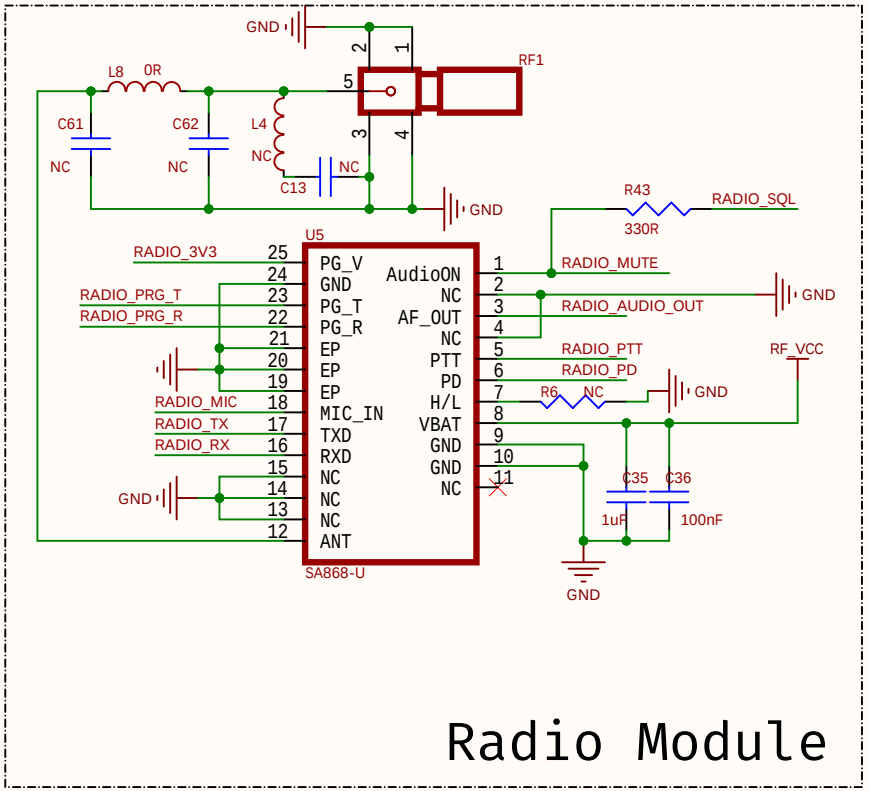
BLDO1/1V8/OFF
BLDO2/2V8/OFF

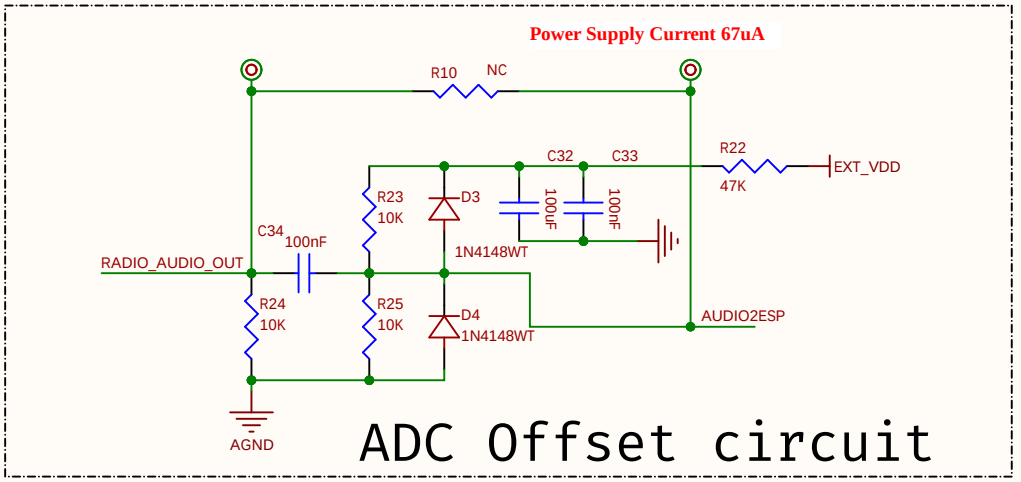
ALDO4/2V9/OFF

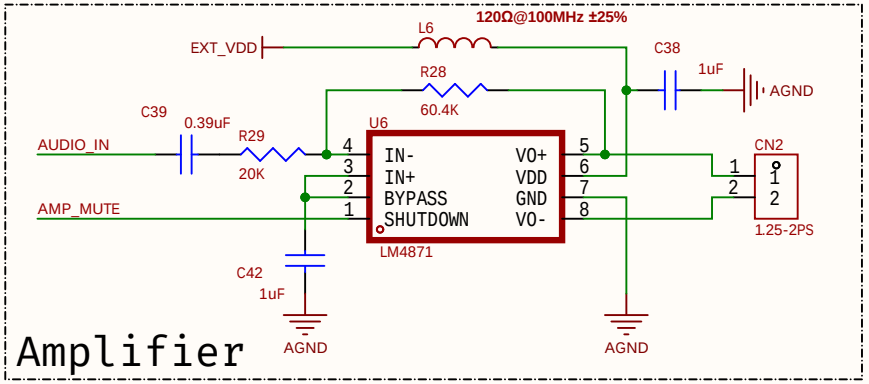


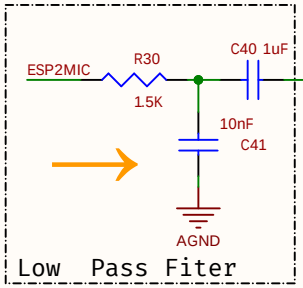
PMU

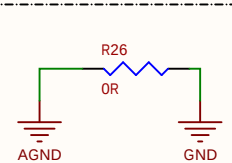
Title	PCB_PMU_LILYGO	
Size: A4	Number:	Revision: V2.1
Date: 4/17/2024		Sheet of 2/7
File: C:\Users\..\2.PMU.SchDoc		Drawn By: LewisHe









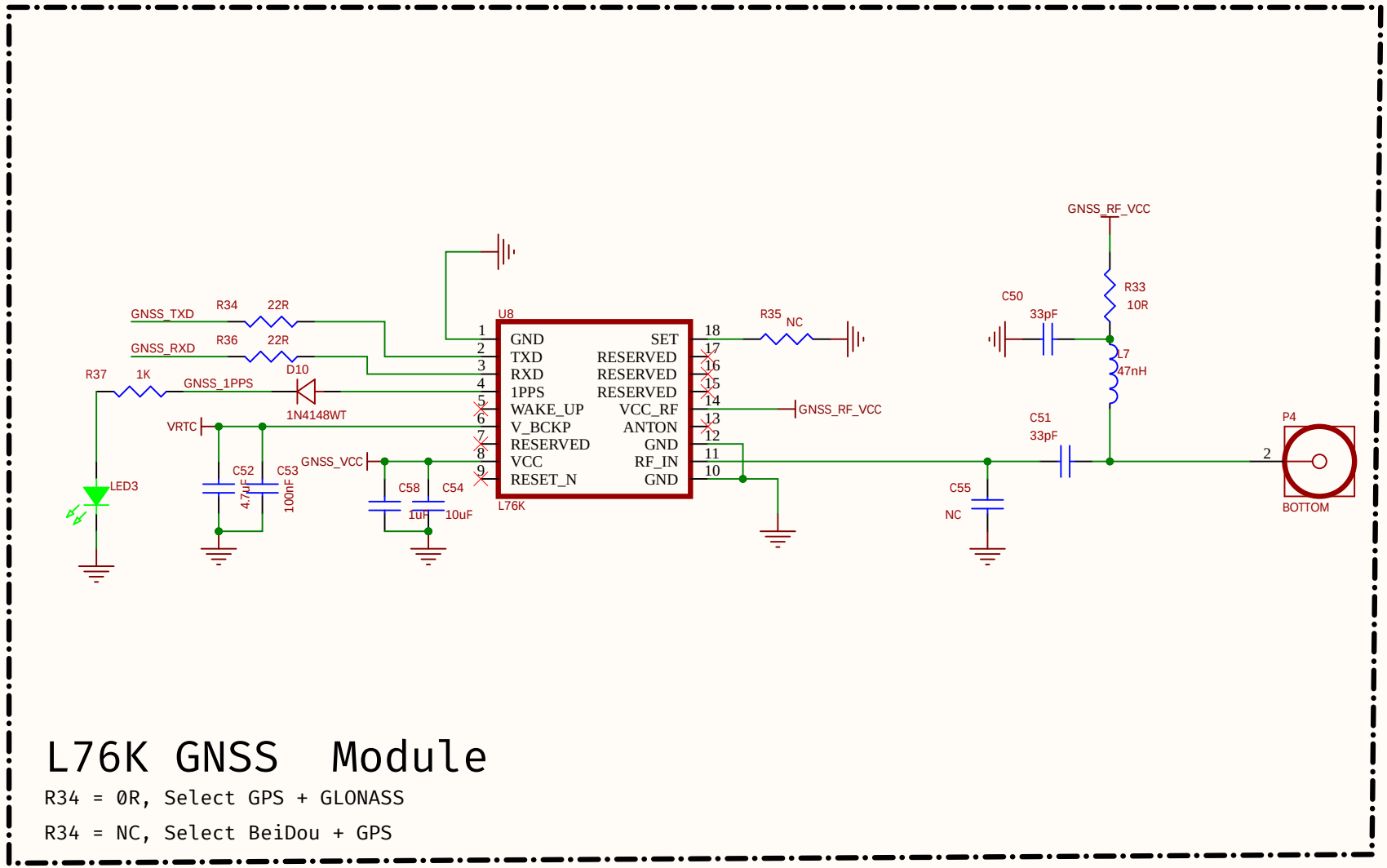


Consumption current and power are for reference only, subject to actual conditions

Use AT+DMOSETGROUP=0 or 1, set TXPower

AT+DMOSETGROUP=1,Use Low Power
AT+DMOSETGROUP=0,Use High Power

Title	PCB_RADIO_LILYGO	
Size: A	Number:	Revision: V2.1
Date: 4/17/2024	Sheet of 3/7	
File: C:\Users\..\3.RADIO.SchDoc	Drawn By: LewisHe	



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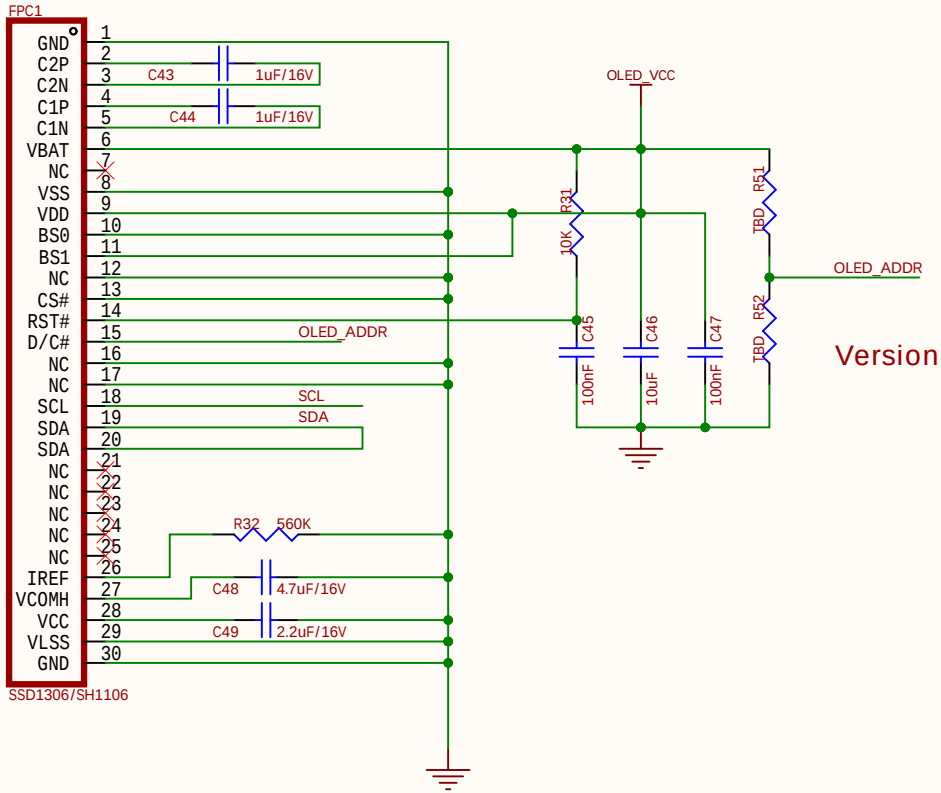
Size: A	Number:	Revision: V2.1
Date: 4/17/2024		Sheet of 4/7
File: C:\Users\..\4.GNSS.SchDoc		Drawn By: LewisHe



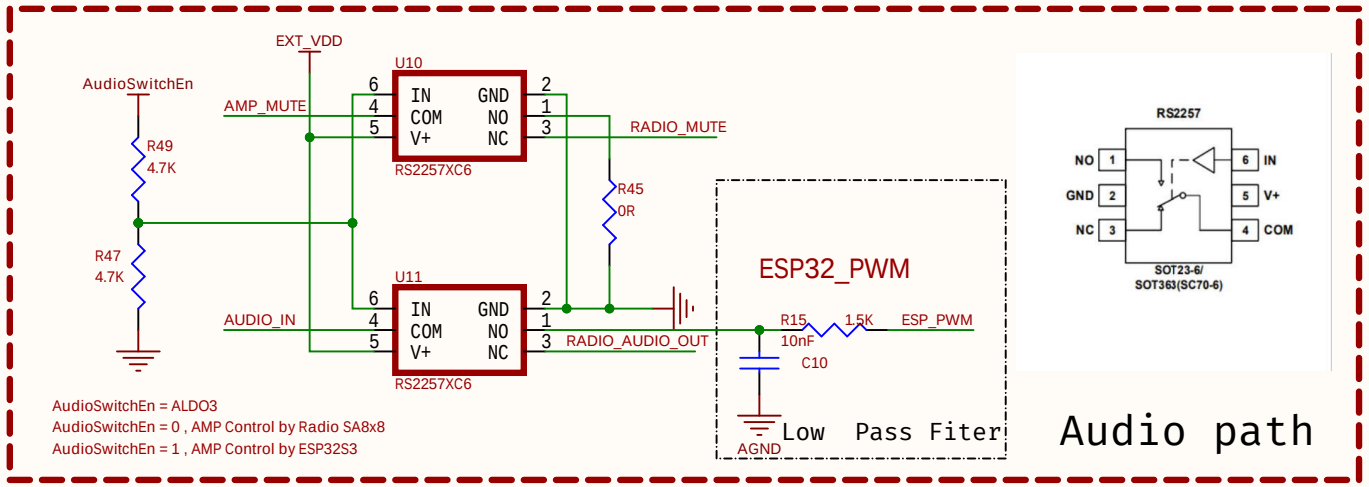
OLED Display

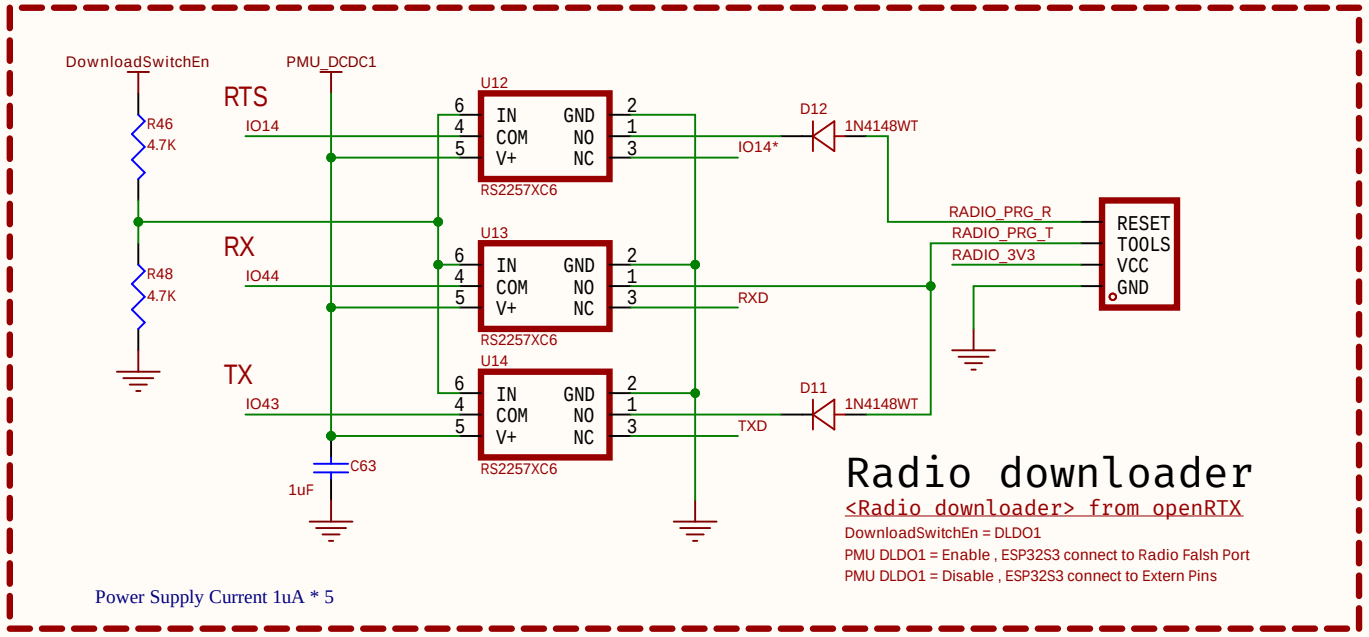
Slave 7 bit address definition:

VHF: R52 = 0R R51 = NC 0X3C

UHF: R52 = NC R51 = 0R 0X3D

Title: PCB_DISPLAY_LILYGO		
Size: A	Number:	Revision: V2.1
Date: 4/17/2024		Sheet of 5/7
File: C:\Users\..\5.DISPLAY.SchDoc		Drawn By: LewisHe





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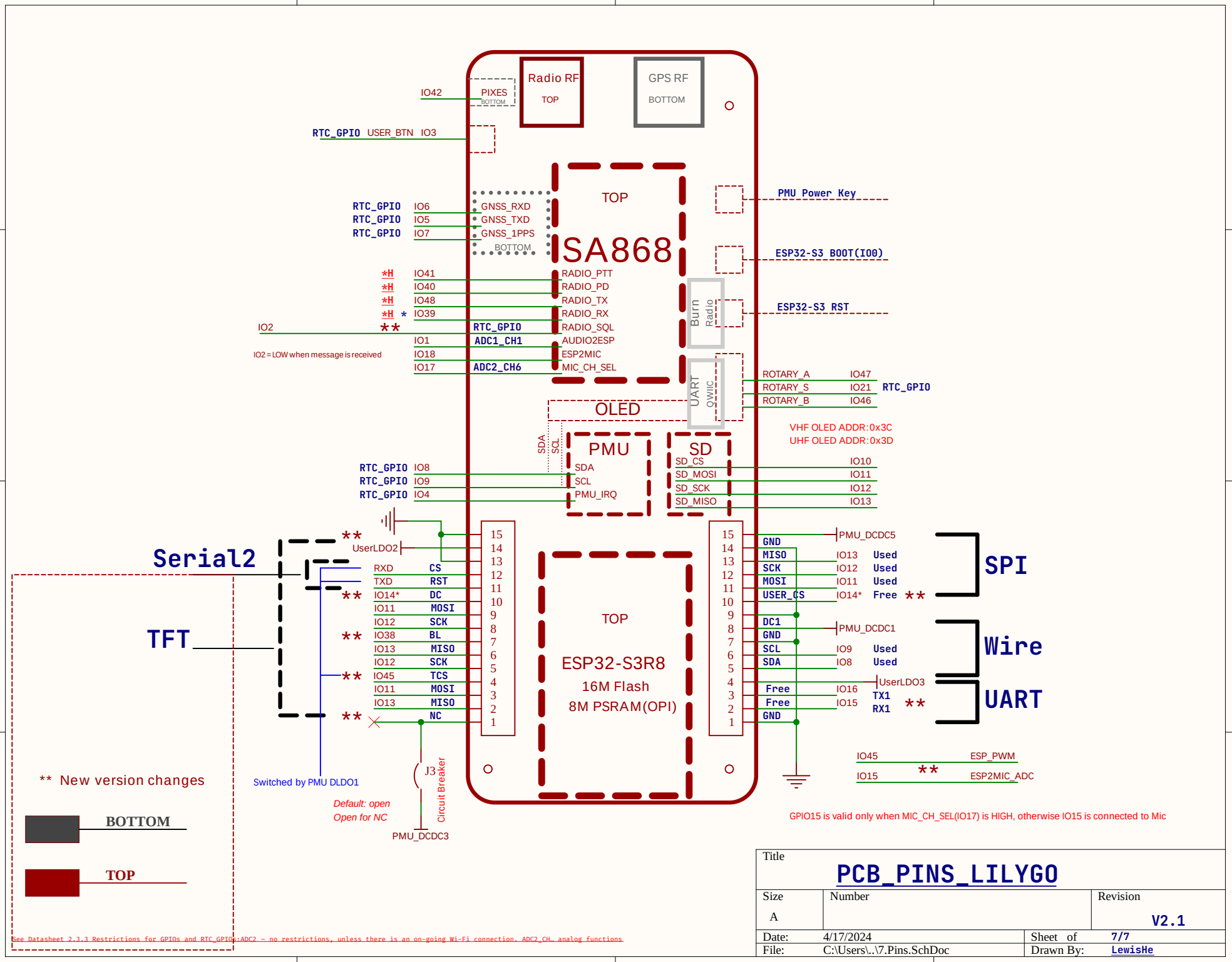
Size: A	Number:	Revision: V2.1
Date: 4/17/2024		Sheet of 6/7
File: C:\Users\..\6.SA8X8.SchDoc		Drawn By: LewisHe



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Size: A	Number:	Revision: V2.1
Date: 4/17/2024		Sheet of 7/7
File: C:\Users\..\7.Pins.SchDoc		Drawn By: LewisHe