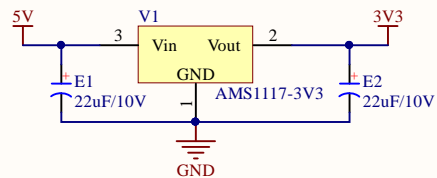
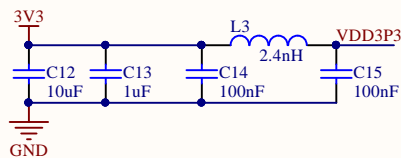


1



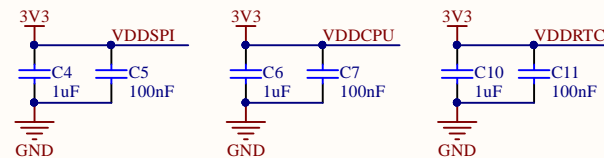
降压电源

2



模拟电源入口

3



数字电源入口

A

A

B

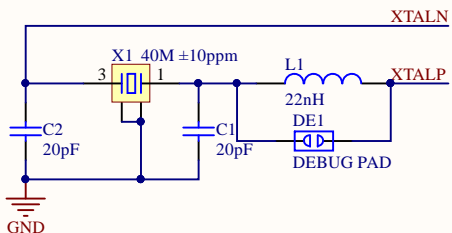
B

C

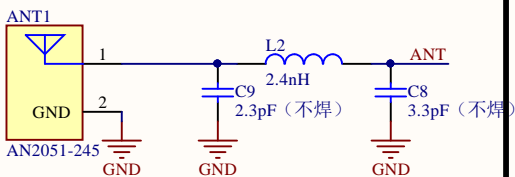
C

D

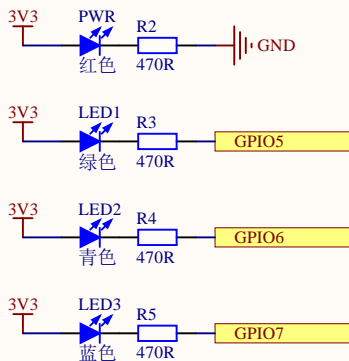
D



主晶振

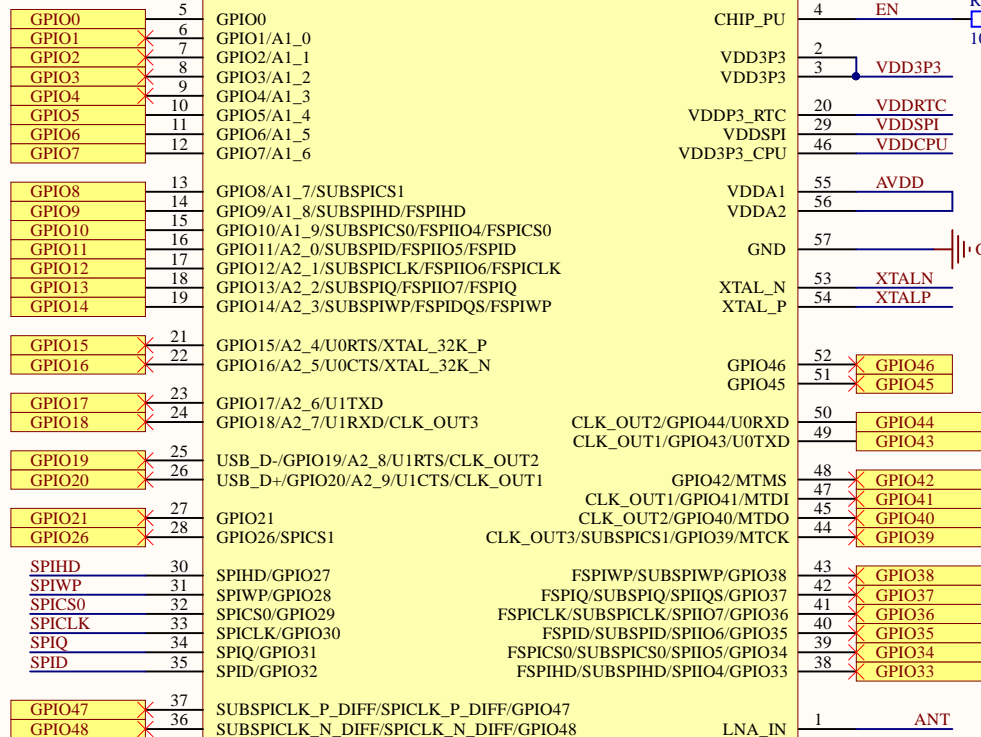


2.4G射频天线



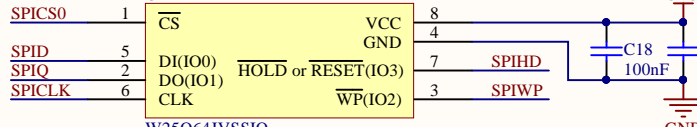
电源及用户LED

U1



ESP32-S3

U2

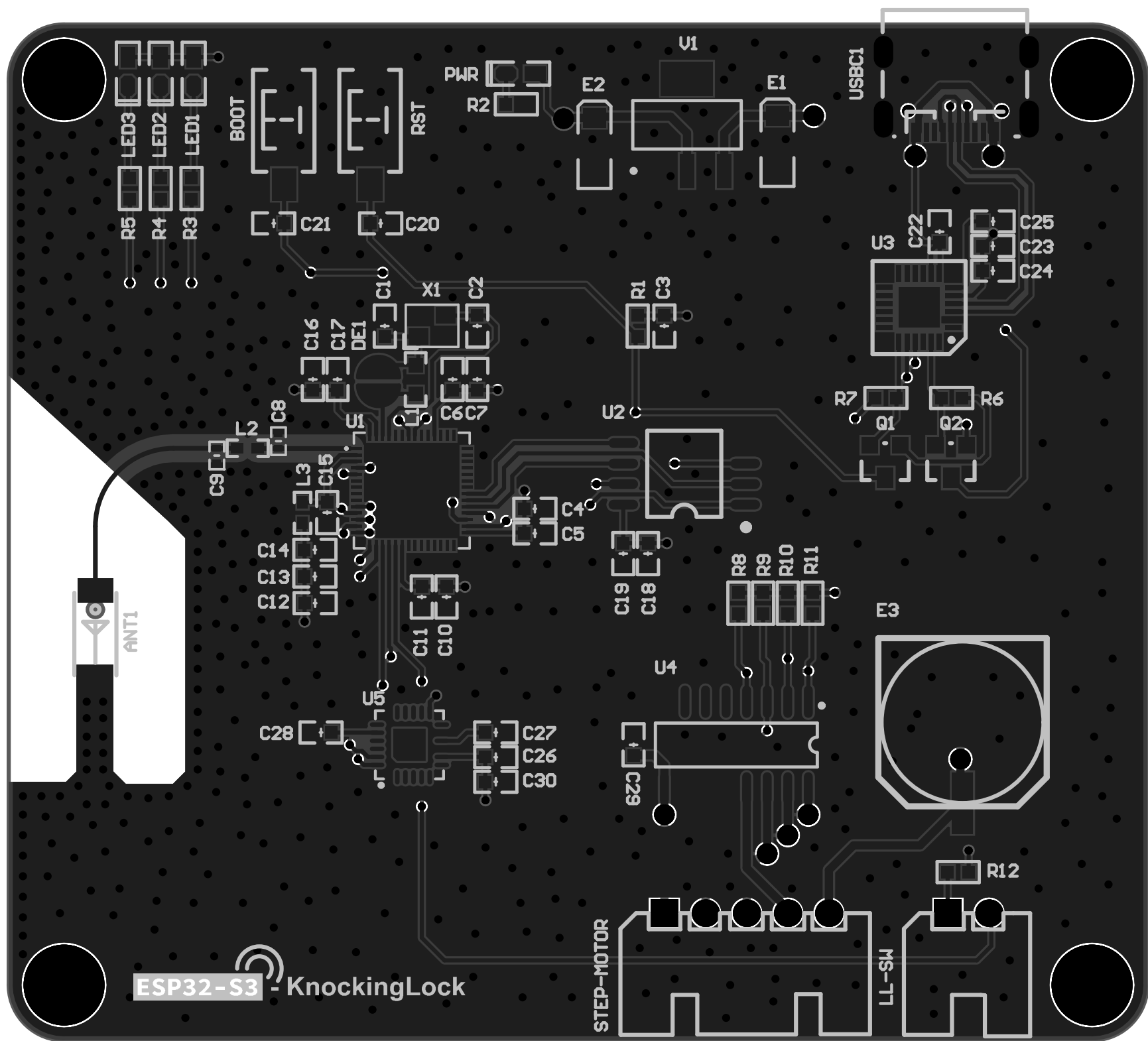


8MB SPI Flash

3

4

Title		
Size	Number	Revision
A4		
Date:	2022/8/13	Sheet of
File:	E:\BaiduSyncdisk\...\core.SchDoc	Drawn By:



Comment	Description	Designator	Footprint	LibRef	Quantity
AN2051-245	AN2051 多层贴片天线 2.45GHz @110Mhz带宽 50ohm阻抗	ANT1	SMD-2051	AN2051	1
3x6x5	3x6轻触开关	BOOT, RST	TSW SMD-3*6*2.5	TSW 3x6	2
20pF	贴片电容	C1, C2	C 0603_L	C	2
1uF	贴片电容	C3, C4, C6, C10, C13, C16, C19, C23, C30	C 0603_L	C	9
100nF	贴片电容	C5, C7, C11, C14, C15, C18, C20, C21, C24, C25, C26, C27, C29	C 0603_L	C	13
3.3pF (不焊)	精密电容	C8	C 0402_L	C-Precision	1
2.3pF (不焊)	精密电容	C9	C 0402_L	C-Precision	1
10uF	贴片电容	C12, C22	C 0603_L	C	2
10nF	贴片电容	C17	C 0603_L	C	1
2.2nF	贴片电容	C28	C 0603_L	C	1
DEBUG PAD	调试断点焊盘	DE1	DEBUG_A	DEBUG	1
22uF/10V	贴片钽电容	E1, E2	CD A(3216)	CT	2
220uF/50V	贴片固态电容	E3	CT 10*8 - C	CS_SMD	1
22nH	小功率贴片电感	L1	L 0603	L	1
2.4nH	小功率贴片电感	L2, L3	L 0402	L	2
绿色	贴片LED	LED1	LED 0603B	LED-SMD	1
青色	贴片LED	LED2	LED 0603B	LED-SMD	1
蓝色	贴片LED	LED3	LED 0603B	LED-SMD	1
HDR-1X2	2P接插件	LL-SW	XH2.54-WI-2P	Header 2	1
红色	贴片LED	PWR	LED 0603B	LED-SMD	1
SS8050	高频放大-NPN型	Q1, Q2	SOT23-3N	8050-SMD	2
10K	贴片电阻	R1, R6, R7	R 0603_L	R	3
470R	贴片电阻	R2, R3, R4, R5	R 0603_L	R	4
4.7K	贴片电阻	R8, R9, R10, R11, R12	R 0603_L	R	5
HDR-1X5	5P接插件	STEP-MOTOR	XH2.54-WI-5P	Header 5	1
ESP32-S3	2.4 GHz Wi-Fi + 低功耗蓝牙 SoC	U1	QFN56 7x7	ESP32-S3	1
W25Q64JVSSIQ	8MB SPI Flash存储器	U2	SOIC-8W	W25Q64	1
CH9102F	QFN24 CH9102 CP2102替代	U3	QFN24	CH9102F	1
达林顿驱动芯片	达林顿驱动芯片	U4	SOP16	ULN2003	1
MPU6050	三轴加速度计和三轴陀螺仪, 工作电压: 2.375V~3.46V	U5	QFN24 4x4_N	MPU6050	1
TYPE-C 2.0 -16P	USB2.0 Type-C 母座 16Pin	USBC1	USB-C-SMD_TYPE-C-USB-5	USB2.0 Type-C 16Pin 母座	1
AMS1117-3V3	三端稳压芯片	V1	SOT223_L	AMS1117	1
40M ±10ppm	4脚无源晶振	X1	OSC 2025-4P	XTAL-4P	1