

Bill of Materials

Bill of Materials For Project [ESP32-S3-StandardSystem.PrjPCB] (No PCB Document Set)

Source Data From:	ESP32-S3-StandardSystem.PrjPCB
Project:	ESP32-S3-StandardSystem.PrjPCB
Variant:	None

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Footprint	Comment	LibRef	Designator	Description	Quantity
SMD-2051	AN2051-245	AN2051	ANT1	AN2051 多层贴片天线 2.45GHz @110Mhz 带宽 50ohm阻抗	1
TSW SMD-3*6*2.5	3x6x5	TSW 3x6	BOOT, RST	3x6轻触开关	2
C 0603_L	20pF	C	C1, C2	贴片电容	2
C 0603_L	1uF	C	C3, C4, C6, C10, C13, C16, C19, C23, C30	贴片电容	9
C 0603_L	100nF	C	C5, C7, C11, C14, C15, C18, C20, C21, C24, C25, C26, C27, C29	贴片电容	13
C 0402_L	3.3pF (不焊)	C-Precision	C8	精密电容	1
C 0402_L	2.3pF (不焊)	C-Precision	C9	精密电容	1
C 0603_L	10uF	C	C12, C22	贴片电容	2
C 0603_L	10nF	C	C17	贴片电容	1
C 0603_L	2.2nF	C	C28	贴片电容	1
DEBUG_A	DEBUG PAD	DEBUG	DE1	调试断点焊盘	1
CD A(3216)	22uF/10V	CT	E1, E2	贴片钽电容	2
CT 10*8 - C	220uF/50V	CS_SMD	E3	贴片固态电容	1
L 0603	22nH	L	L1	小功率贴片电感	1
L 0402	2.4nH	L	L2, L3	小功率贴片电感	2
LED 0603B	绿色	LED-SMD	LED1	贴片LED	1
LED 0603B	青色	LED-SMD	LED2	贴片LED	1
LED 0603B	蓝色	LED-SMD	LED3	贴片LED	1
XH2.54-WI-2P	HDR-1X2	Header 2	LL-SW	2P接插件	1
LED 0603B	红色	LED-SMD	PWR	贴片LED	1
SOT23-3N	SS8050	8050-SMD	Q1, Q2	高频放大-NPN型	2
R 0603_L	10K	R	R1, R6, R7	贴片电阻	3
R 0603_L	470R	R	R2, R3, R4, R5	贴片电阻	4
R 0603_L	4.7K	R	R8, R9, R10, R11, R12	贴片电阻	5
XH2.54-WI-5P	HDR-1X5	Header 5	STEP-MOTOR	5P接插件	1
QFN56 7x7	ESP32-S3	ESP32-S3	U1	2.4 GHz Wi-Fi + 低功耗蓝牙 SoC	1
SOIC-8W	W25Q64JVSSI Q	W25Q64	U2	8MB SPI Flash存储器	1
QFN24	CH9102F	CH9102F	U3	QFN24 CH9102 CP2102替代	1
SOP16	达林顿驱动芯片	ULN2003	U4	达林顿驱动芯片	1
QFN24 4x4_N	MPU6050	MPU6050	U5	三轴加速度计和三轴陀螺仪，工作电压：2.375V~3.46V	1
USB-C-SMD_TYPE-C-USB-5	TYPE-C 2.0 - 16P	USB2.0 Type-C 16Pin母座	USBC1	USB2.0 Type-C 母座 16Pin	1
SOT223_L	AMS1117-3V3	AMS1117	V1	三端稳压芯片	1
OSC 2025-4P	40M ±10ppm	XTAL-4P	X1	4脚无源晶振	1
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Approved	Notes