FF插座原理图

保险丝

谐振

BOOT状态选择

电流检测
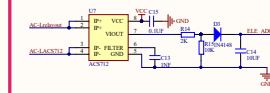
电源滤波与保护

数据存储
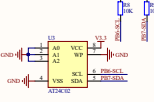
手动开关

插座状态指示

LDO（5V->3.3V）

AC输入与输出

继电器

复位
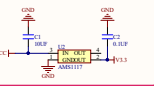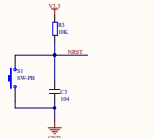
AC->DC
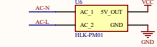
SWD接口
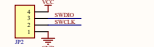
ESP8266-12F

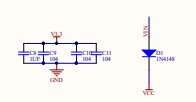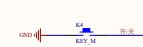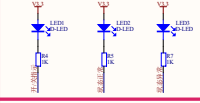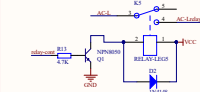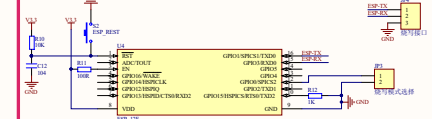| Comment	Description	Designator	Footprint	LibRef	Quantity
10UF		C1, C14	0805	C	2
0.1UF		C2, C15	0805	C	2
104		C3, C12	0805	C	2
22PF	无极性电容	C4, C5, C6, C7	C-RAD-0805	Cap	4
104	无极性电容	C8, C9, C10, C11	C-RAD-0805	Cap	4
1NF		C13	0805	C	1
1N4148	二极管	D1, D2, D3	DIODE-SMA	Diode	3
FUSE		FU1	FUSE1	FUSE	1
boot	Header, 3-Pin, Dual row	JP1	HDR2X3	Header 3X2	1
Header 4	接插件	JP2	HDR4X1_A	Header 4	1
烧写模式选择	Header, 2-Pin	JP3	HDR1X2	Header 2	1
烧写接口	接插件	JP4	HDR3X1_A	Header 3	1
Header 2	Header, 2-Pin	JP5, JP6, JP7	HDR1X2	Header 2	3
KEY_M		K4	KEY_M	KEY_M	1
RELAY-LEG5		K5	RELAY-LEG5	RELAY-LEG5	1
D-LED	LED	LED1, LED2, LED3	0805D	D-LED	3
NPN8050	8050/BCW846/BCW847	Q1	SOT-23R	NPN	1
10K		R1, R2, R3, R8, R9, R10 R15	0805	R	7
1K		R4, R5, R7, R12	0805	R	4
10M	贴片电阻	R6	0805-1	Res1	1
100R		R11	0805	R	1
4.7K		R13	0805	R	1
2K		R14	0805	R	1
SW-PB	微动开关	S1	SW_PB2_A1	SW-PB	1
ESP_REST	微动开关	S2	SW_PB2_A1	SW-PB	1
STM32F103C8T6	STM32单片机48引脚	U1	LQFP-48_M	STM32F103C	1
AMS1117		U2	AMS1117	AMS1117	1
AT24C02	EEROM存储器	U3	SOIC8_N	AT24C02	1
ESP_12F	ESP-12 Wi-Fi Module by Al-Thinker	U4	ESP_12	ESP_12	1
HLK-PM01		U6	HLK-PM01	HLK-PM01	1
ACS712	电流检测芯片	U7	SOIC127P610X175-8N	ACS712	1
XTAL_8M	晶振	Y1	X-SM49	XTAL	1
32.768K	Crystal Oscillator	Y2	R38	XTAL	1