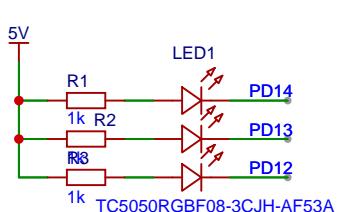
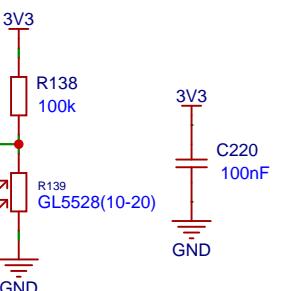




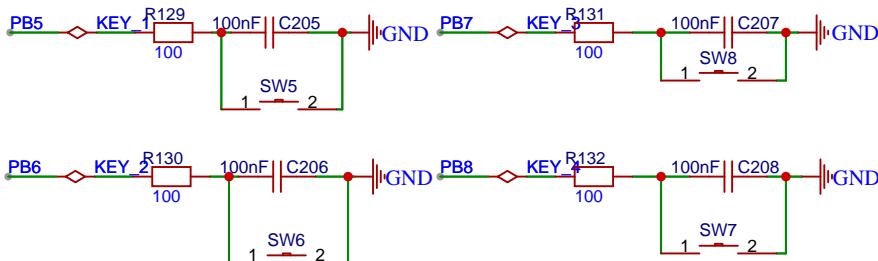
光敏



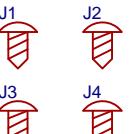
有源蜂鸣器



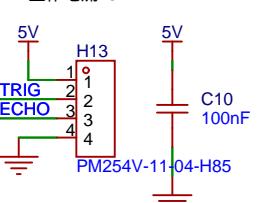
按键



螺丝孔

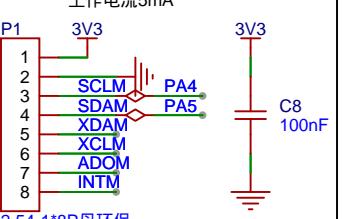


HC-SR04



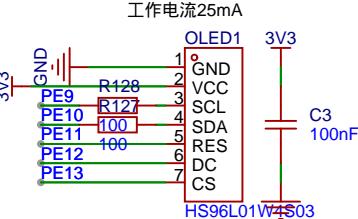
MPU6050

工作电流5mA



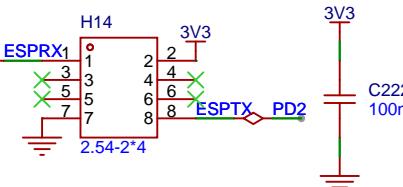
OLED

— 1 —



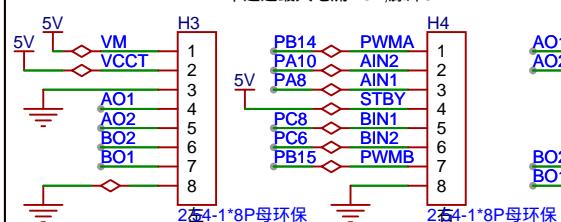
ESP8266

8

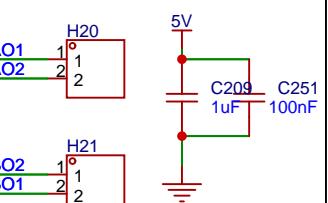


TB6612

单通道最大电流1.3A,脉冲3.2A

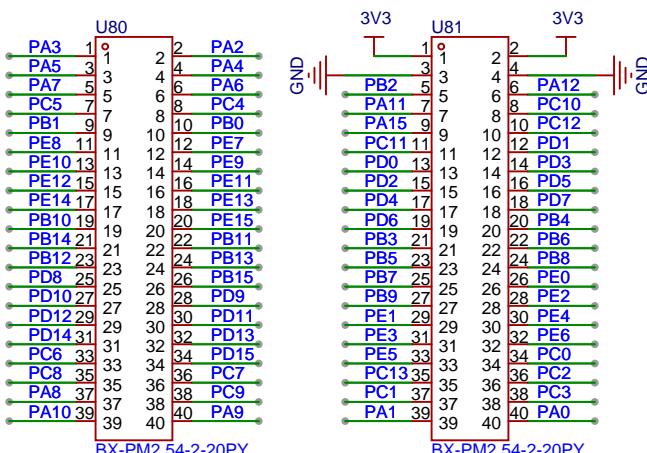


机驱动脚引出



原理图	F4拓展板_2	创建日期	2025-11-12
		更新日期	2026-02-05
板子	F4扩展板_2	图页	外设
绘制			
审阅			ELC-F4扩展板
	版本	尺寸	页 1 共 3
 嘉立创EDA	V1.0	A4	嘉立创EDA

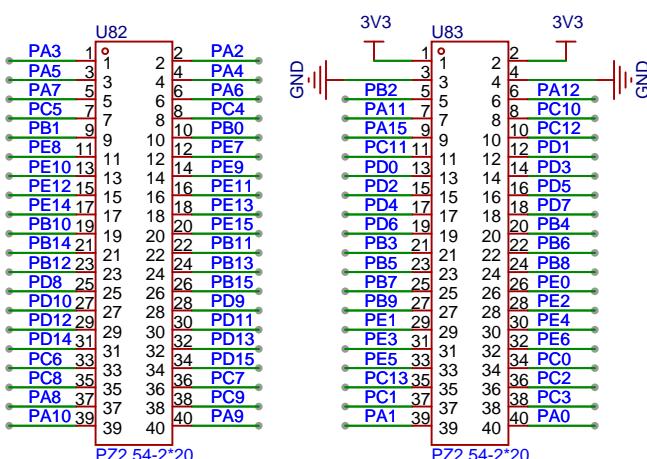
核心板插入



PA13、PA14在烧录口引出
PC14、PC15、PH0、PH1是晶振脚，没引出
BOOT0、NRST没有引出
PB、PD、PE全部引出

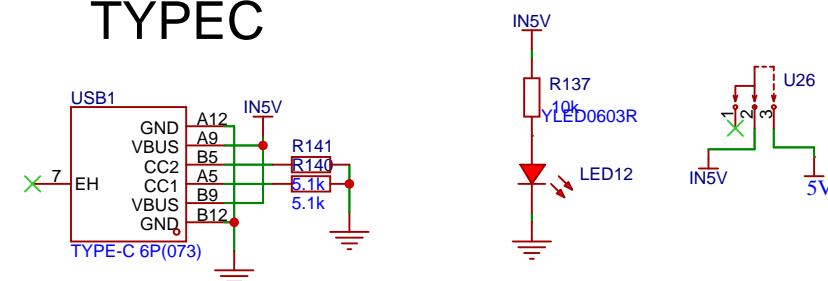
总之，这两排没有引出的引脚是：
PA13\PA14\PC14\PC15\PH0\PH1\BOOT0

接口引出

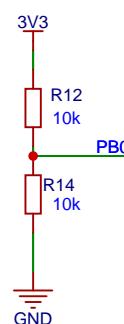


原理图	F4拓展板_2			创建日期	2025-11-12
板子	F4拓展板 2			更新日期	2026-02-05
绘制				图页	核心板
审阅				ELC-F4扩展板	
				版本	尺寸
				页 2	共 3
嘉立创EDA			V1.0	A4	嘉立创EDA

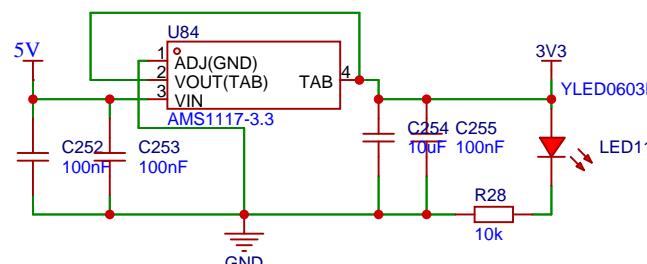
TYPEC



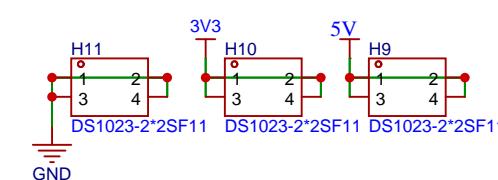
电源检测



3V3电源 1A



电源引出



原理图	F4拓展板_2		创建日期	2025-11-12	
板子	F4拓展板 2		更新日期	2026-02-05	
绘制			图页	电源	
审阅			ELC-F4扩展板		
	版本	尺寸	页	3 共 3	
 嘉立创EDA		V1.0	A4	嘉立创EDA	