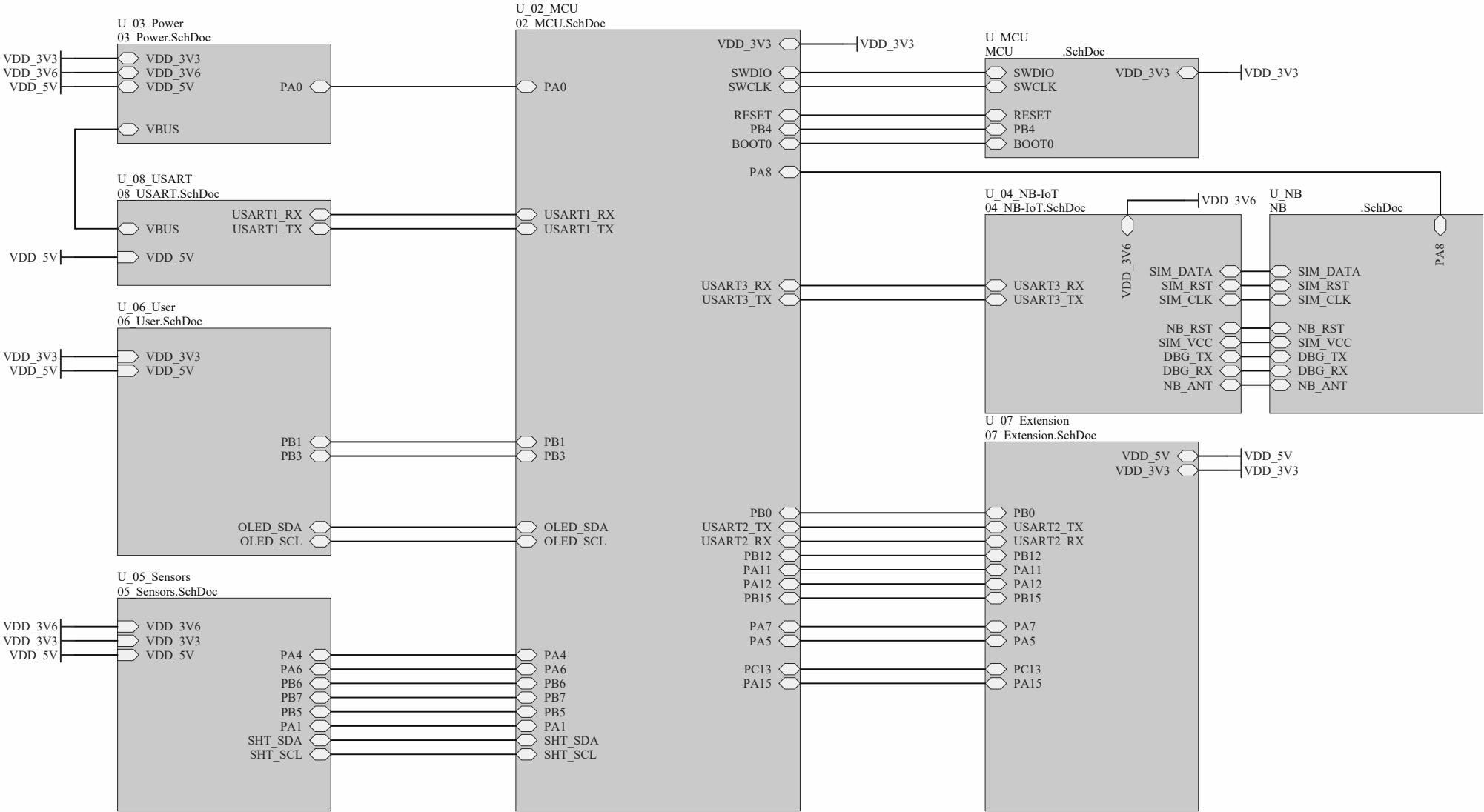
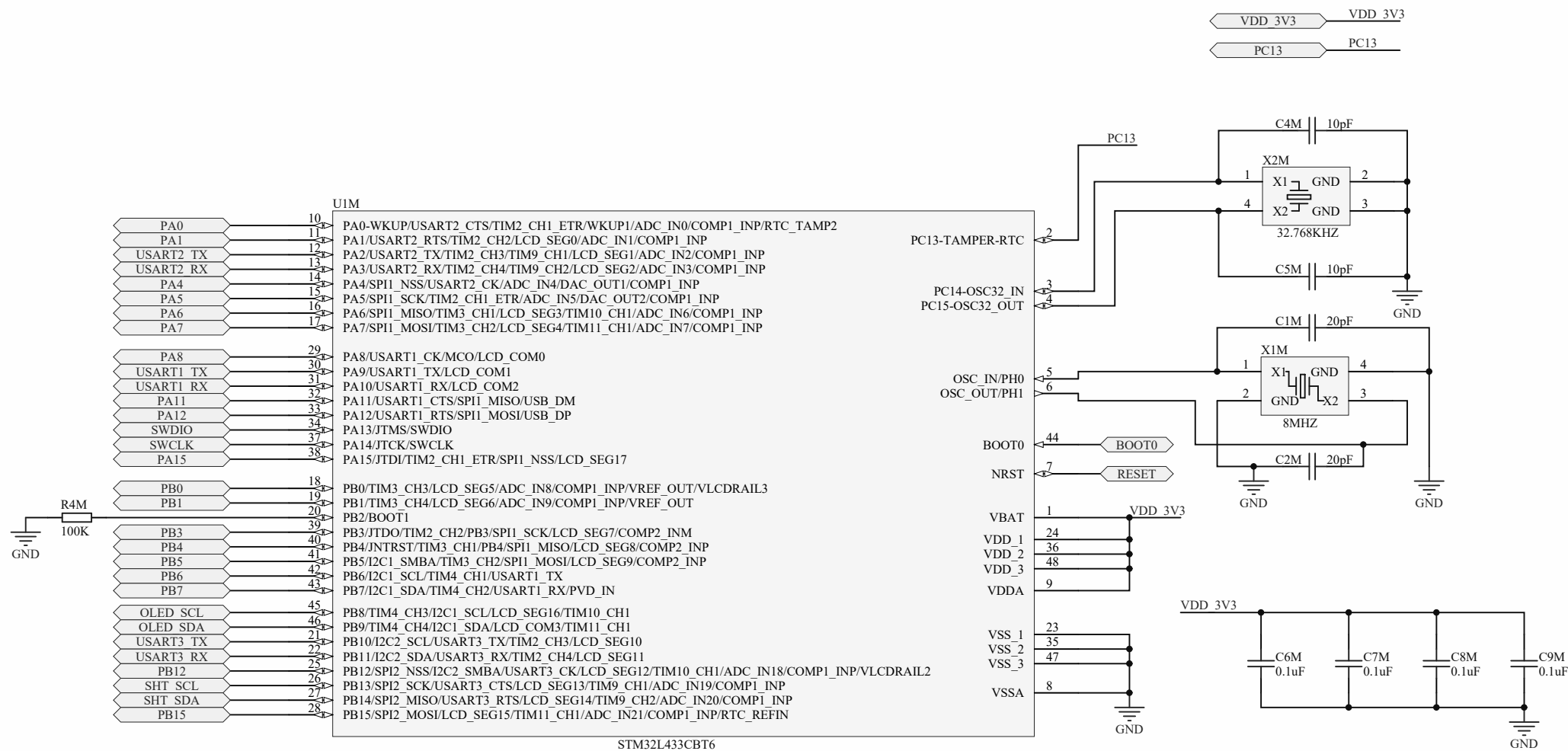


小熊座KE1开发板硬件系统框图

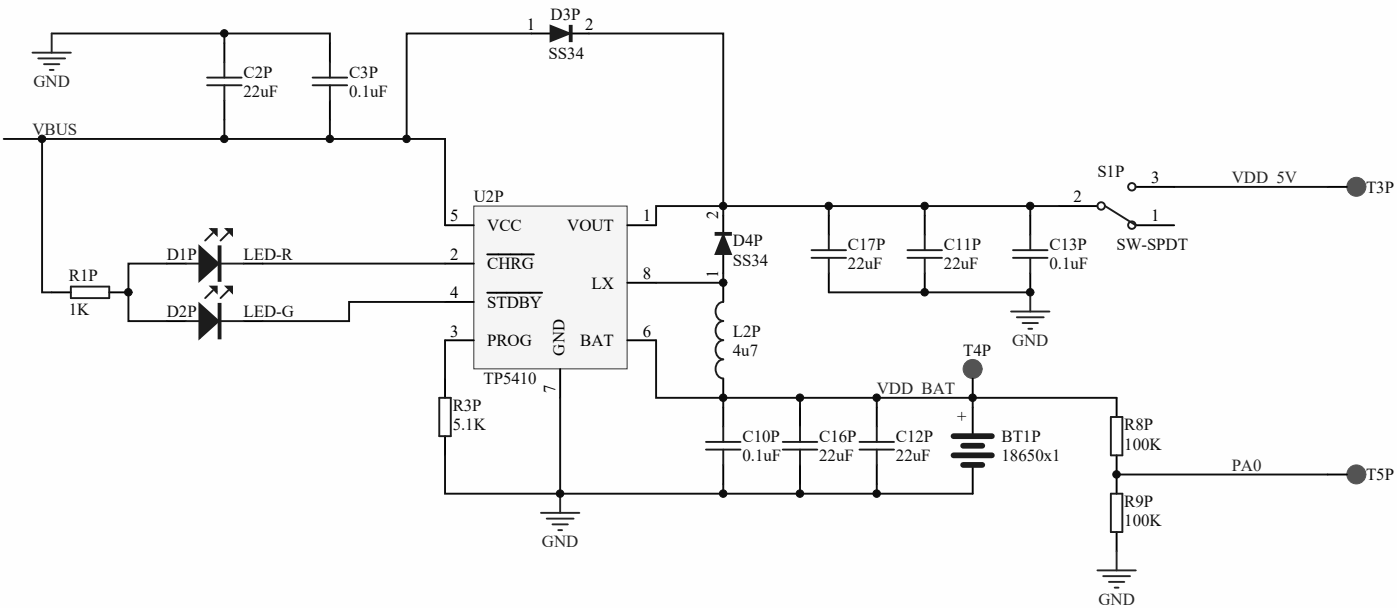


MCU电路



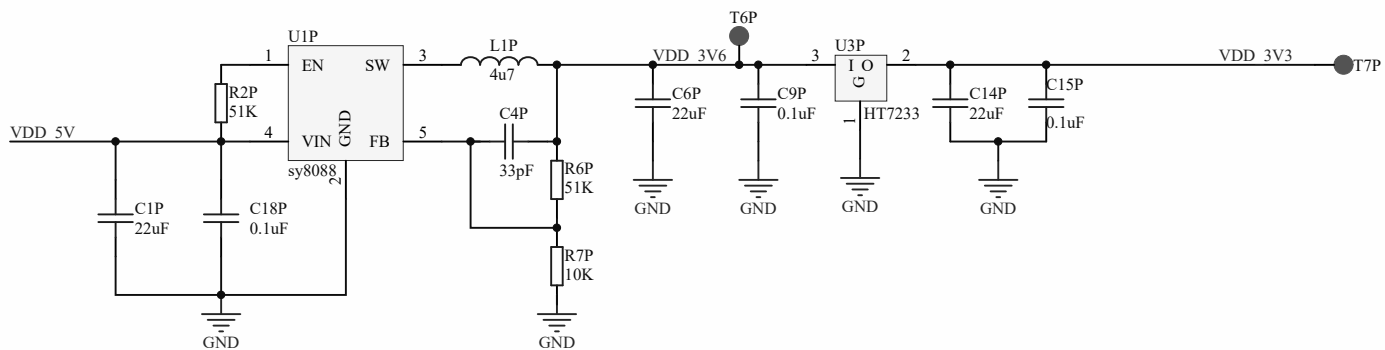
供电系统电路

DC-DC电路

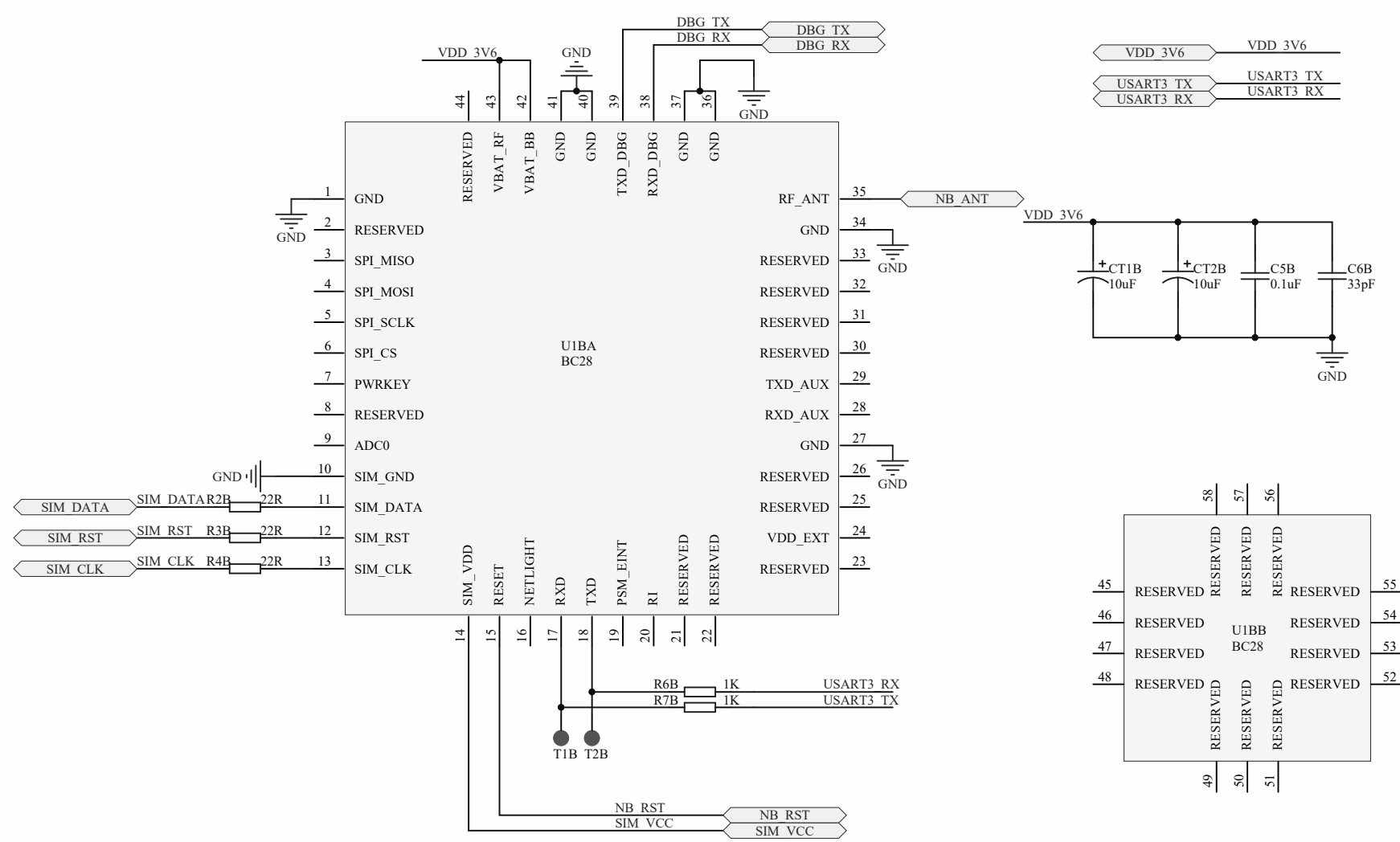


VDD 3V3	VDD 3V3
VDD 3V6	VDD 3V6
VDD 5V	VDD 5V
PA0	PA0
VBUS	VBUS

LDO电路

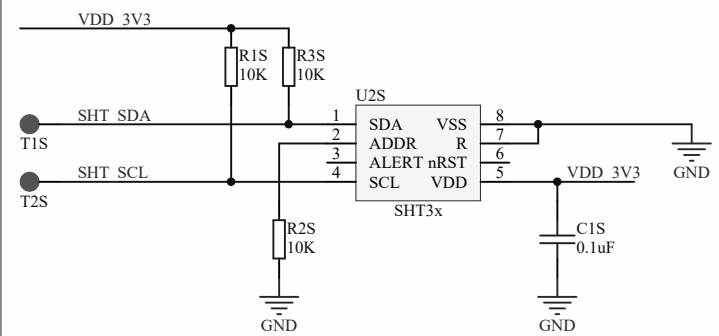


BC28 NB-IoT通信模组电路

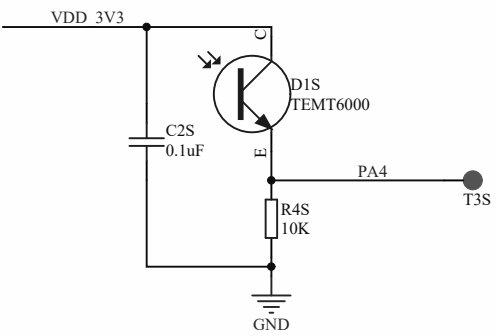


传感器电路

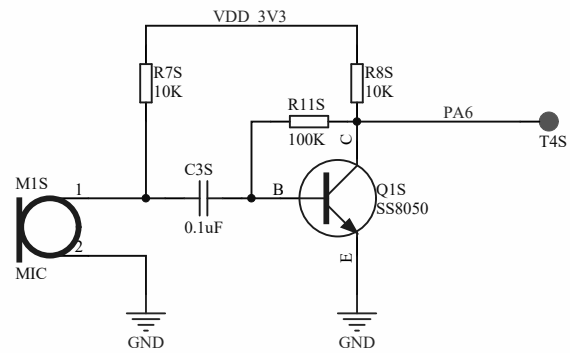
温湿度传感器电路



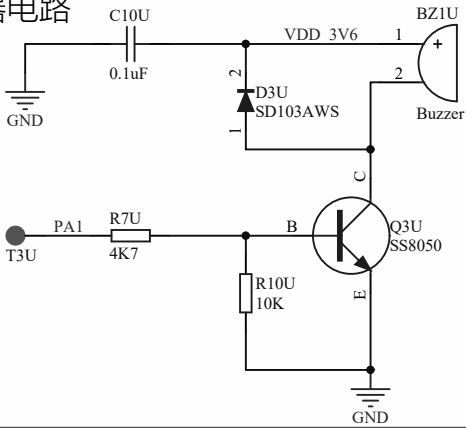
环境光传感器电路



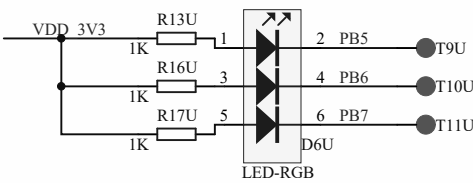
声音传感器电路



蜂鸣器电路



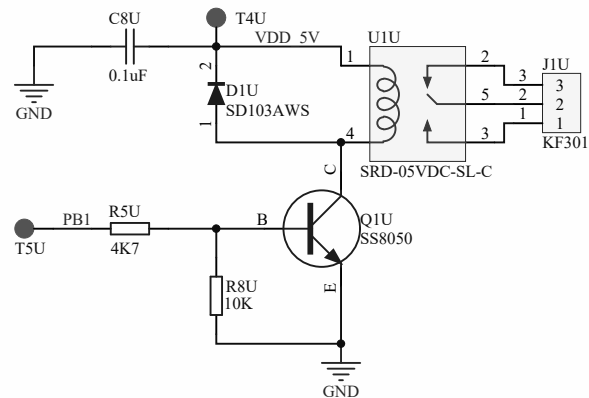
三色LED灯电路



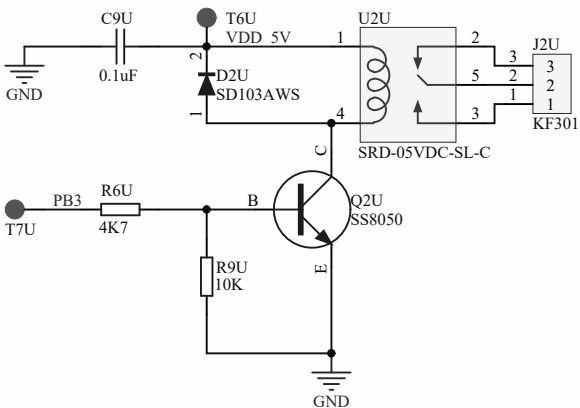
VDD 3V6	VDD 3V6
VDD 3V3	VDD 3V3
VDD 5V	VDD 5V
PA1	PA1
PA4	PA4
PA6	PA6
PB6	PB6
PB5	PB5
PB7	PB7
SHT SDA	SHT SDA
SHT SCL	SHT SCL

扩展功能电路

继电器1电路

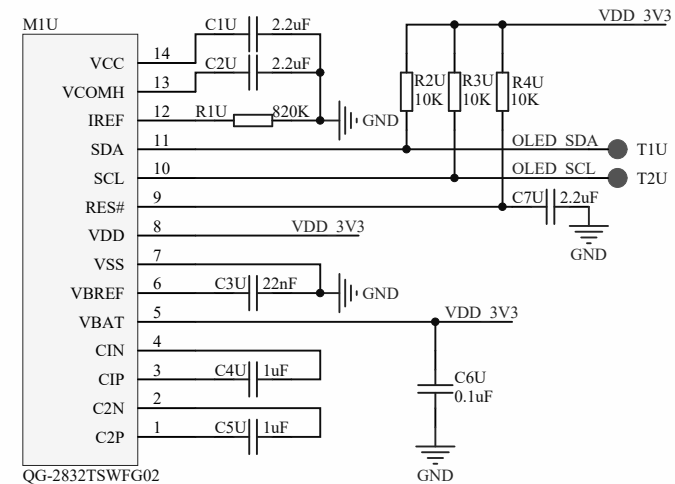


继电器2电路



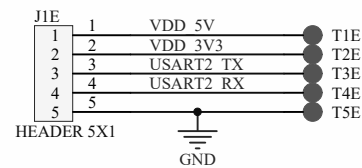
PB1	PB1
PB3	PB3
OLED SCL	OLED SCL
OLED SDA	OLED SDA
VDD 5V	VDD 5V
VDD 3V3	VDD 3V3

OLED显示屏电路

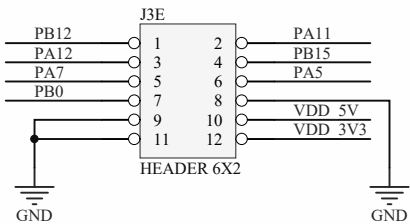


扩展接口电路

扩展串口连接器

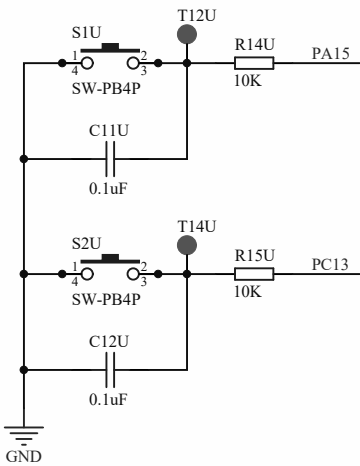


扩展接口连接器

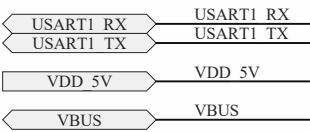


VDD 5V	VDD 5V
VDD 3V3	VDD 3V3
USART2 TX	USART2 TX
USART2 RX	USART2 RX
PA5	PA5
PA7	PA7
PA11	PA11
PA12	PA12
PA15	PA15
PB0	PB0
PB12	PB12
PB15	PB15
PC13	PC13

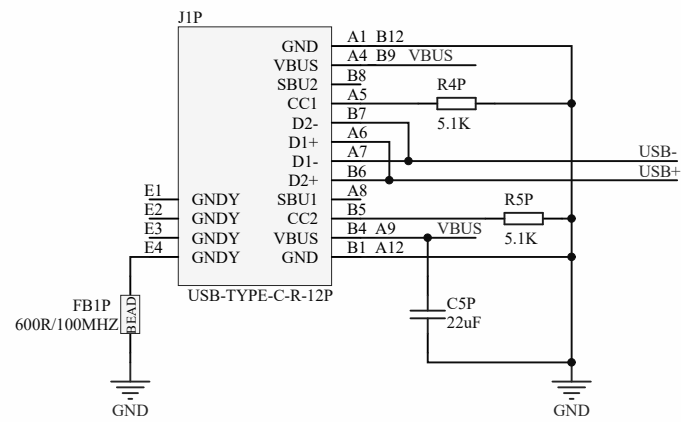
扩展按键电路



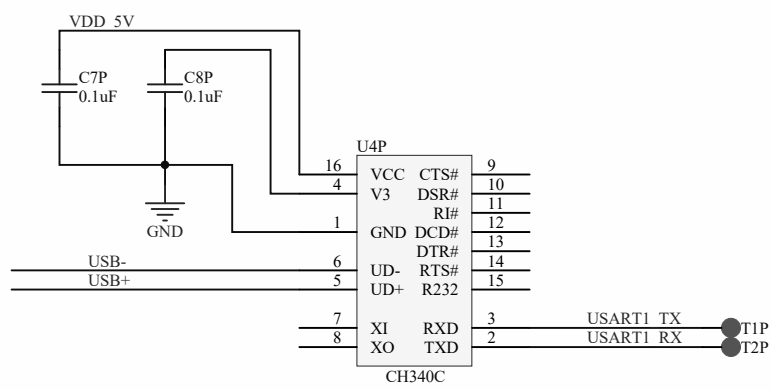
电平转换电路



USB Type-C接口电路



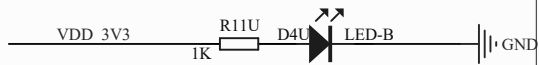
USB电平转换电路



MCU外围电路

SWDIO	SWDIO
SWCLK	SWCLK
VDD 3V3	VDD 3V3
RESET	RESET
PB4	PB4
BOOT0	BOOT0

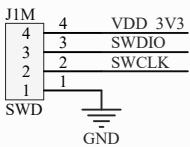
系统电源指示灯电路



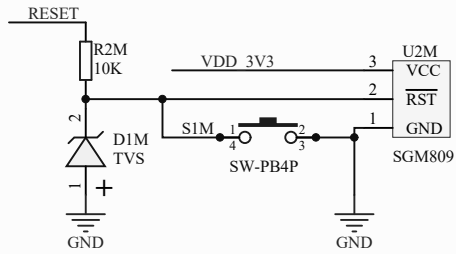
MCU工作指示灯电路



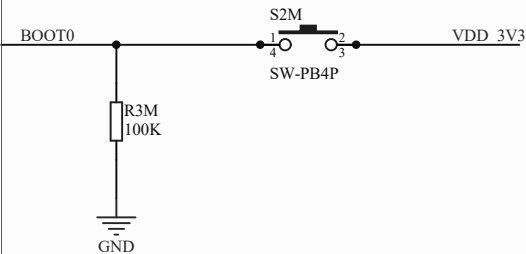
SWD接口电路



MCU复位按键电路



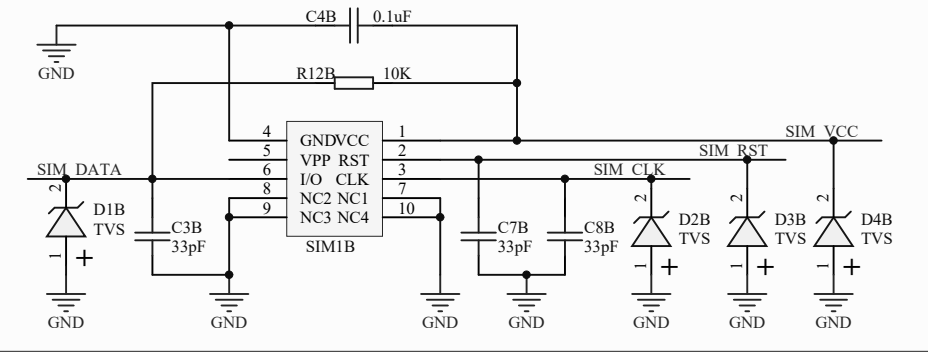
MCU BOOT按键电路



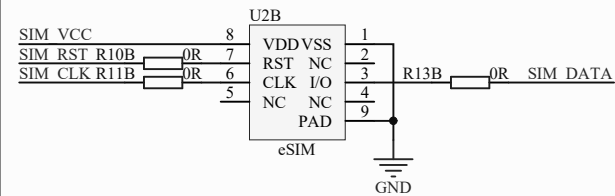
NB-IoT通信模组外围电路

PA8	PA8
SIM_DATA	SIM_DATA
SIM_RST	SIM_RST
SIM_CLK	SIM_CLK
SIM_VCC	SIM_VCC
NB_RST	NB_RST
NB_ANT	NB_ANT
DBG_TX	DBG_TX
DBG_RX	DBG_RX

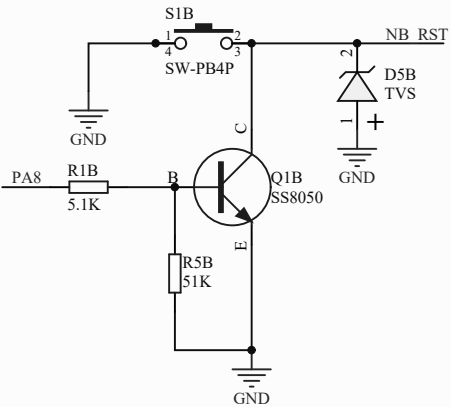
SIM卡连接器电路



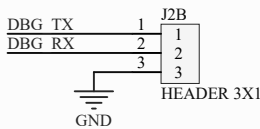
eSIM芯片电路



通信模组复位电路



通信模组调试串口电路



天线匹配电路

