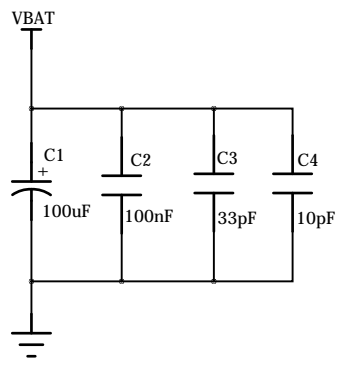
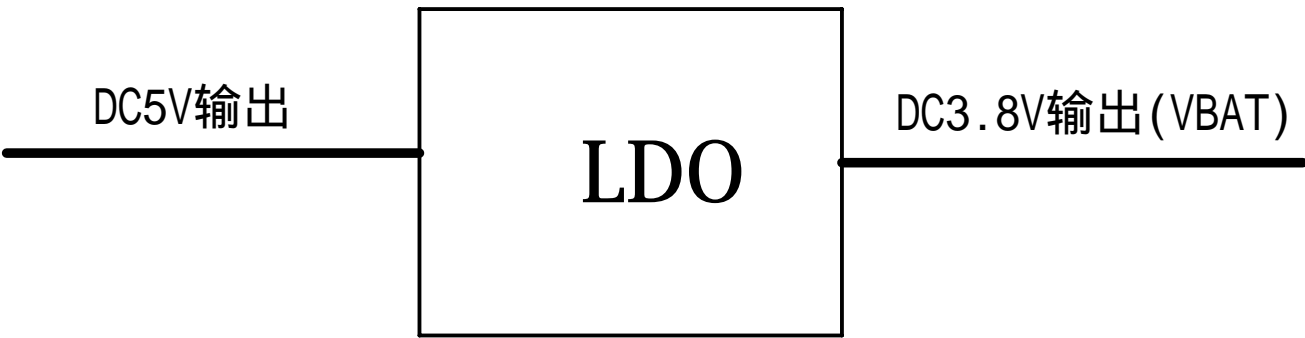


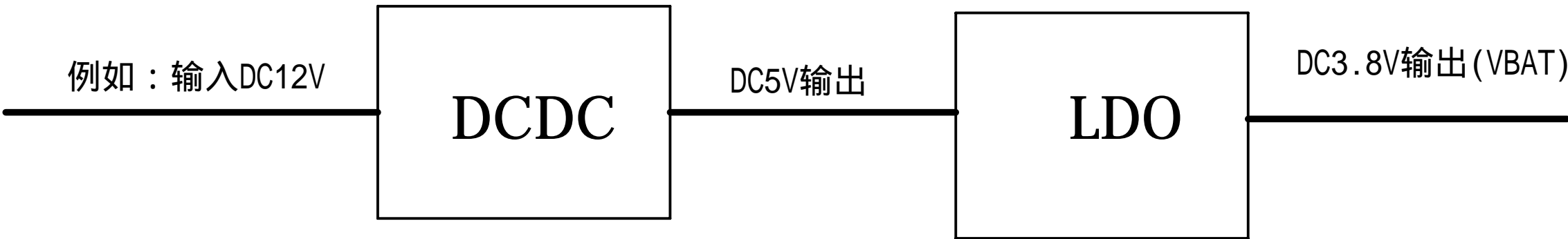
电源供应

压差较小的话建议使用LDO



- 1、模组供电范围3.4V-4.2V，典型值3.8V,电源尽量能够提供1A电流
- 2、电容C1 C2 C3 C4靠近模组VBAT放置，电源layout走线尽量短且粗

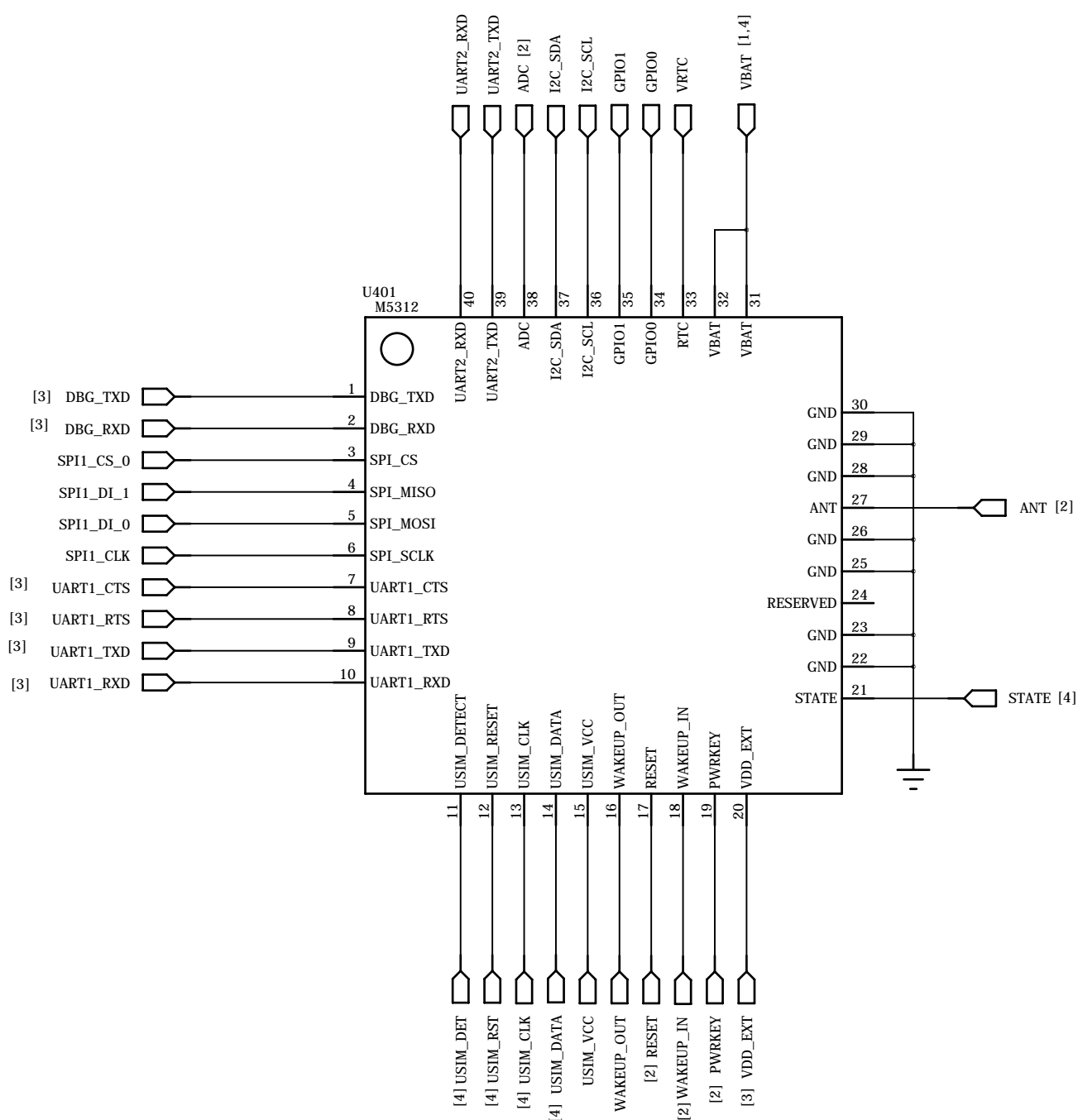
若输入输出压差较大，建议先使用DCDC降压到5V,再使用LDO



中移物联网

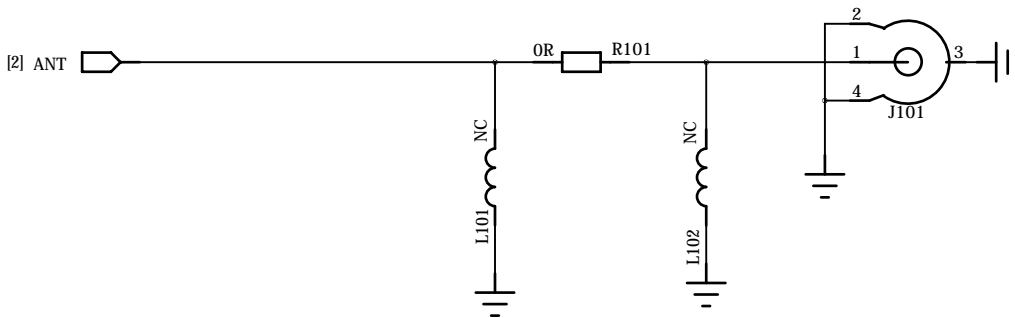
DRAWN: LinRui		DATED: 2018/11/19		TITLE: 1. POWER		PROJECT: M5312参考设计	
CHECKED: <Checked By>		DATED: <Checked Date>		SIZE: A2		REV: V1.2	
						SHEET: 1 of 5	

M5312模组接口



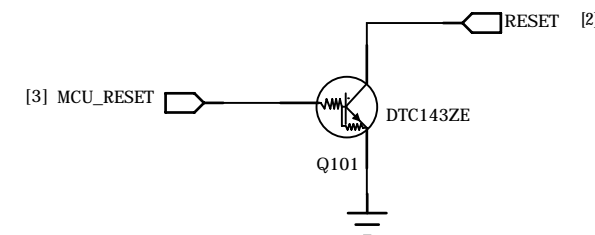
- 1、VDD_EXT为2.8V输出，最大电流20mA
- 2、UART1为AT命令接口，支持硬件流控

天线

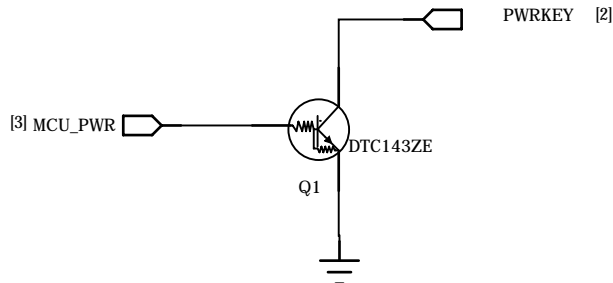


靠近天线座子端预留PI型匹配电路，控制50欧姆阻抗

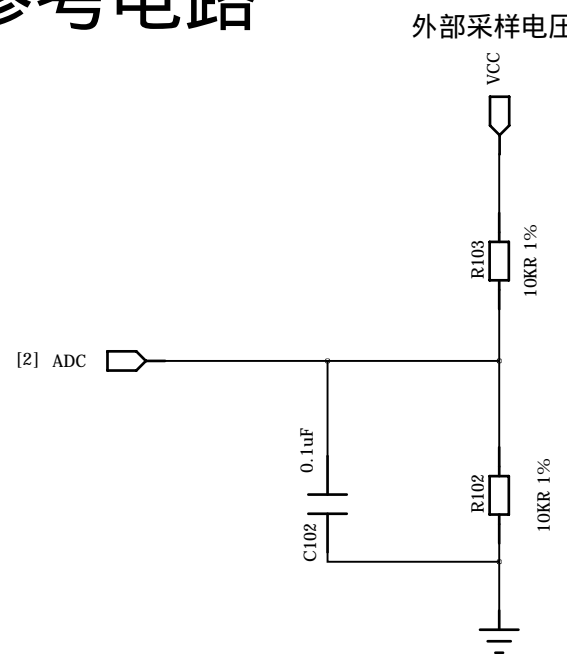
RESET电路



PWRKEY电路

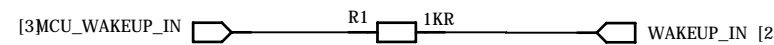


ADC参考电路



ADC最大输入电压1.8V，外部分压之后再输入模组

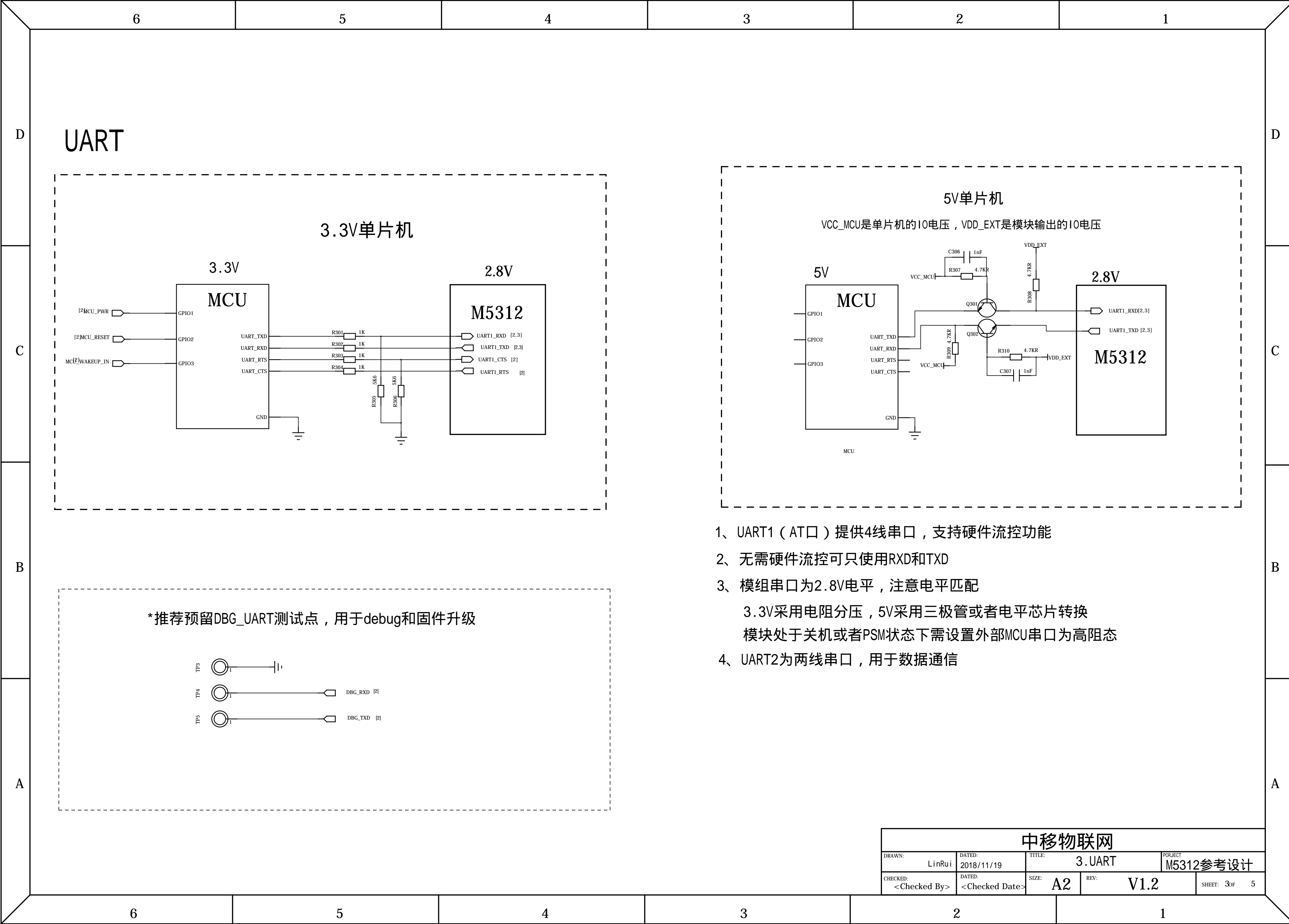
WAKEUP_IN电路



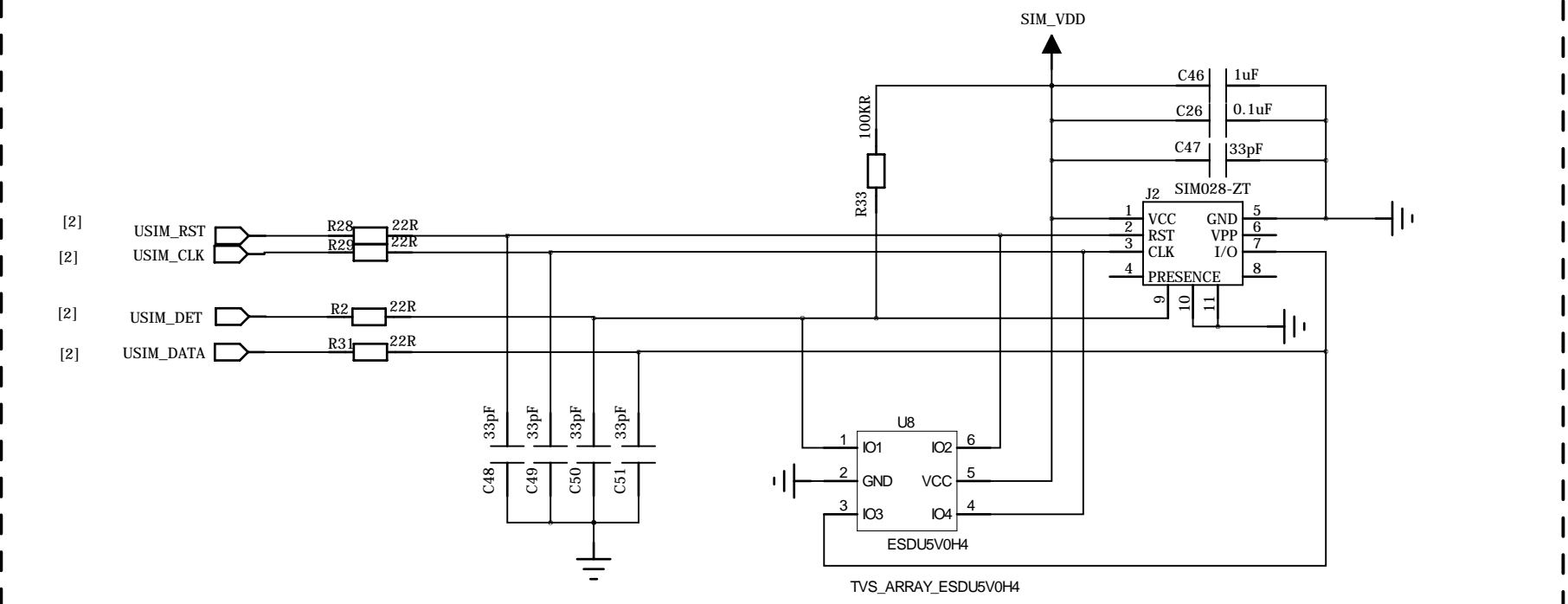
高电平唤醒，空闲状态设置MCU_WAKEUP_IN为高阻态

中移物联网

DRAWN: LinRui	DATED: 2018/11/19	TITLE: 2. MODULE	PROJECT: M5312参考设计
CHECKED: <Checked By>	DATED: <Checked Date>	SIZE: A2	REV: V1.2
		SHEET: 2 of 5	

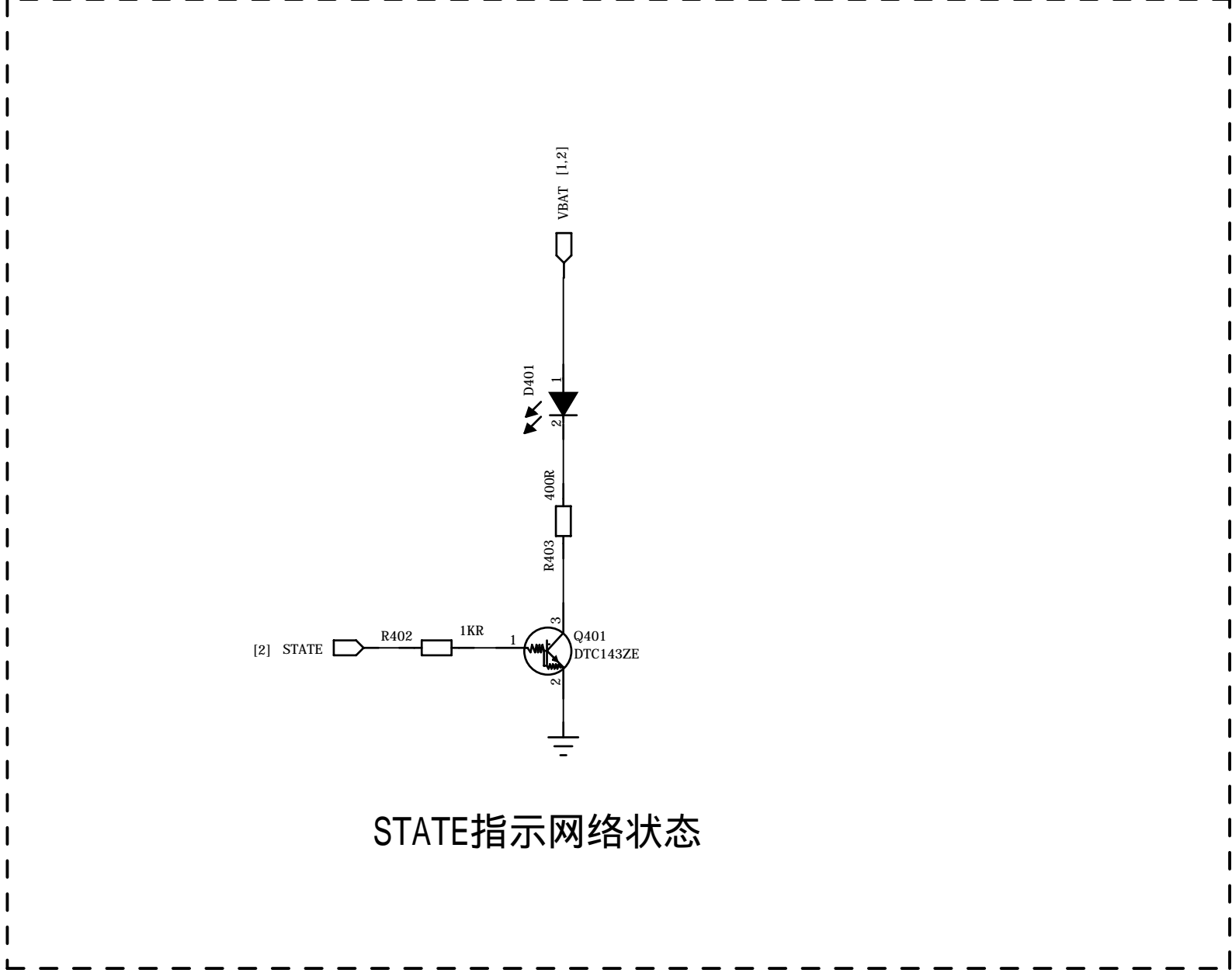


外置SIM卡



外部SIM卡做好ESD保护，注意TVS结电容小于15pF

LED指示



STATE指示网络状态

中移物联网				
DRAWN: LinRui	DATED: 2018/11/19	TITLE: 4.SIM&LED	PROJECT M5312参考设计	
CHECKED: <Checked By>	DATED: <Checked Date>	SIZE: A2	REV: V1.2	SHEET: 4of 5

6		5		4		3		2		1		
D	版本		修订记录				作者		时间		D	
	V1.0		新建				林瑞		2018/06/29			
	V1.1		删除外部SIM卡DATA上拉电阻，WAKEUP_IN串联1K电阻				林瑞		2018/09/27			
	V1.2		交换UART2和DBG串口位置				林瑞		2018/11/19			
C												C
B												B
A												A
6		5		4		3		2		1		