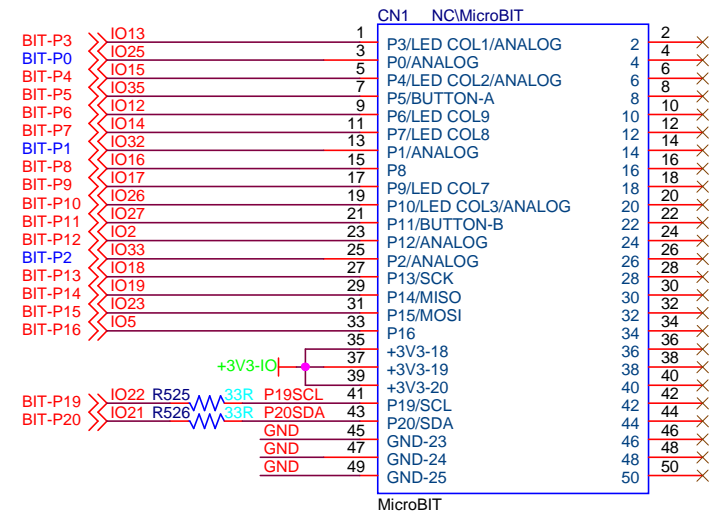
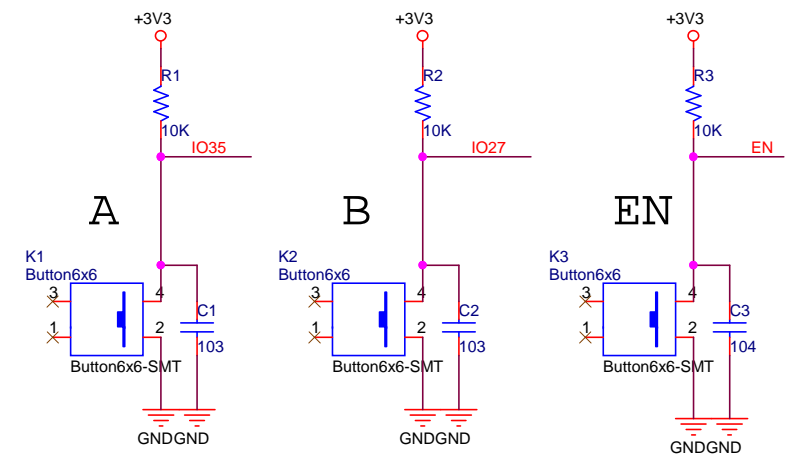
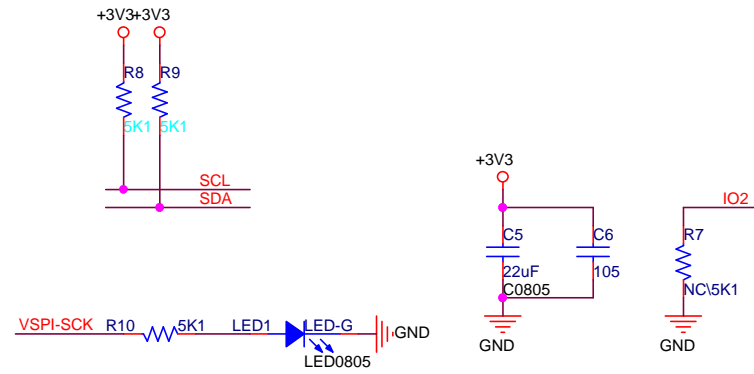
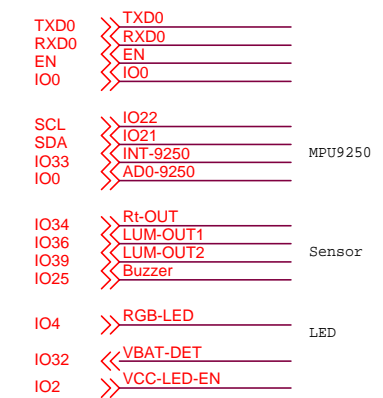
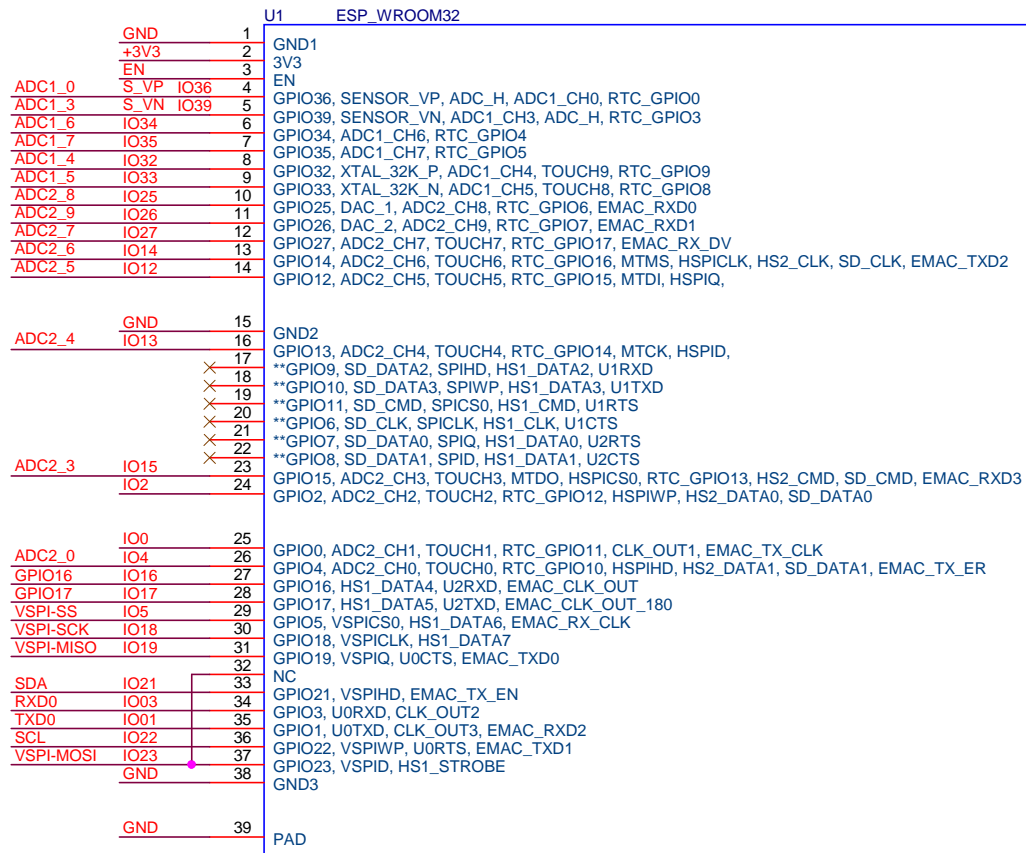


01 ESP32-BIT



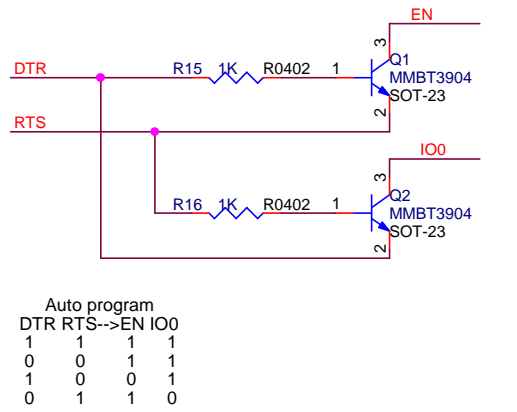
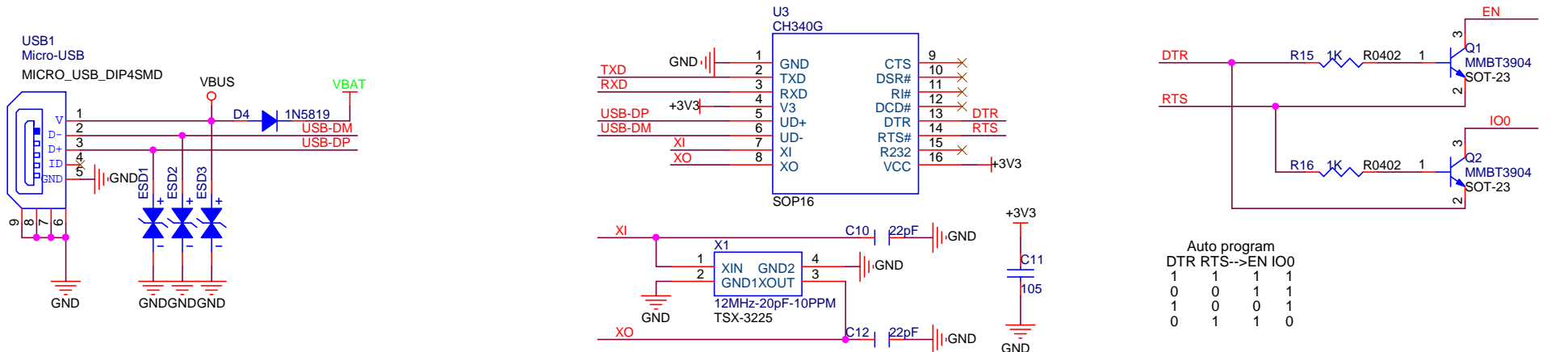
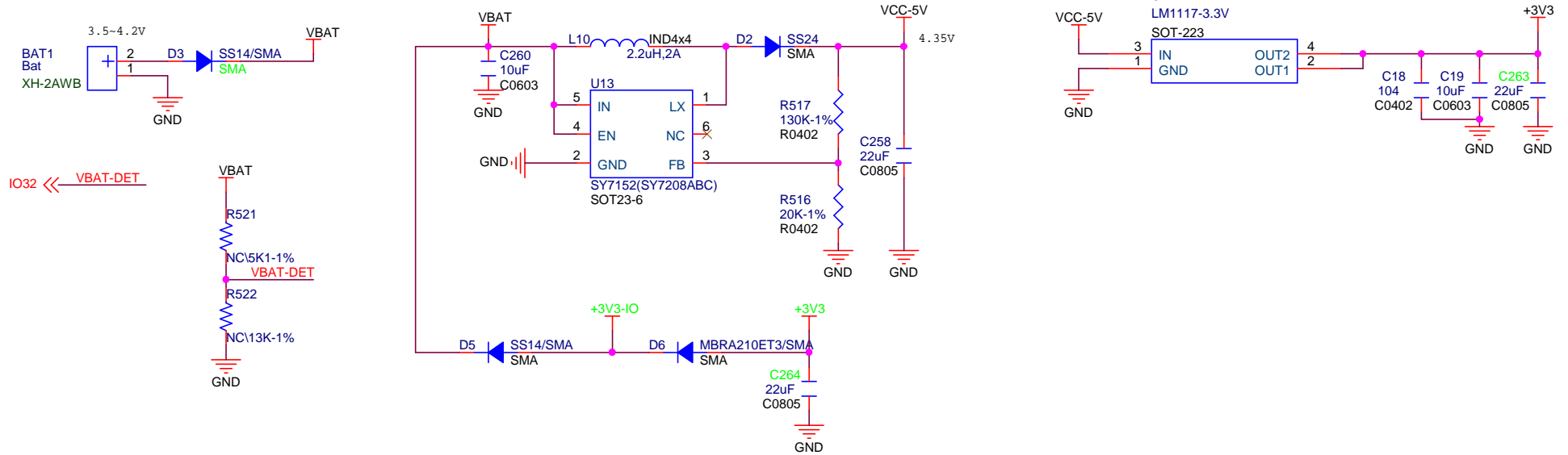
SINOVOIP CO., LIMITED

Design Name: **BPi-Webduino-Bit**

Size: A4	Page Name: ESP32-BIT	Rev: V1.4
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Date: Tuesday, September 04, 2018 Sheet 1 of 5

02 Power



Auto program
DTR RTS-->EN IO0

1	1	1	1
0	0	1	1
1	0	0	1
0	1	1	0

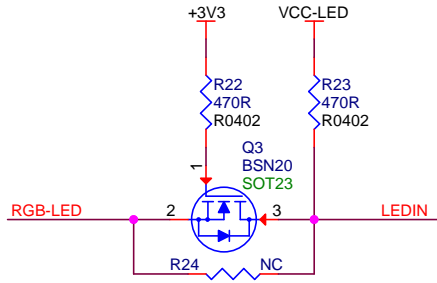
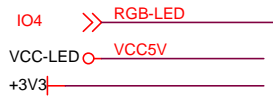
SINOVOIP CO., LIMITED

Design Name
BPi-Webduino-Bit

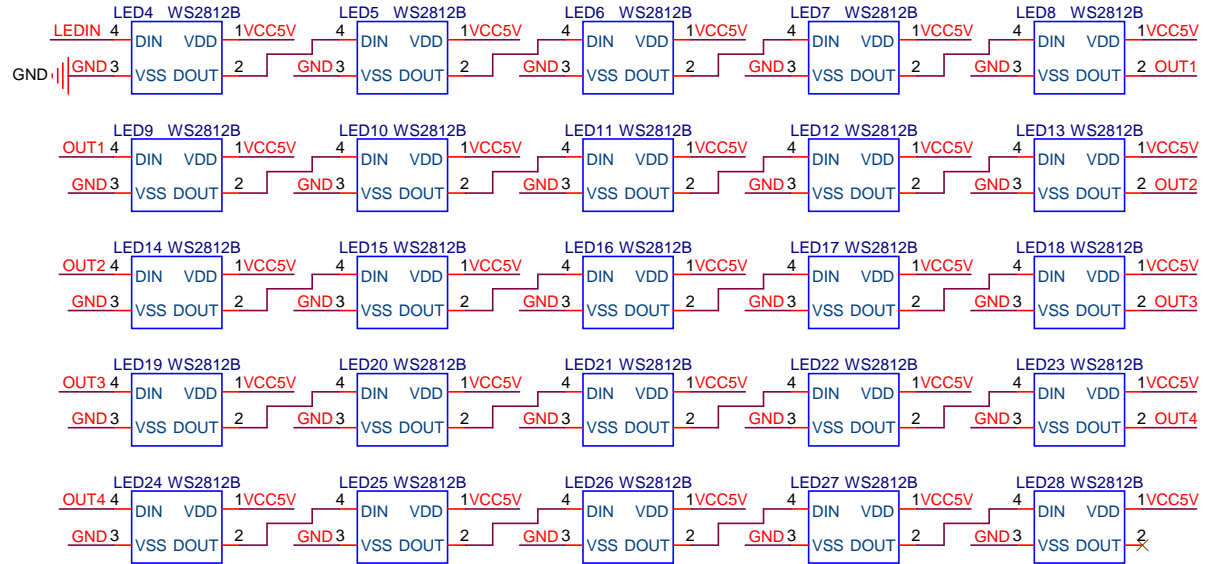
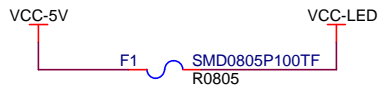
Size A4	Page Name Power	Rev V1.4
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Date: Friday, August 31, 2018 Sheet 2 of 5

03 LED/Sensor



VCC-LED: 3.5V~5.3V
 $V_{din} > 0.7 V_{CC-LED}$

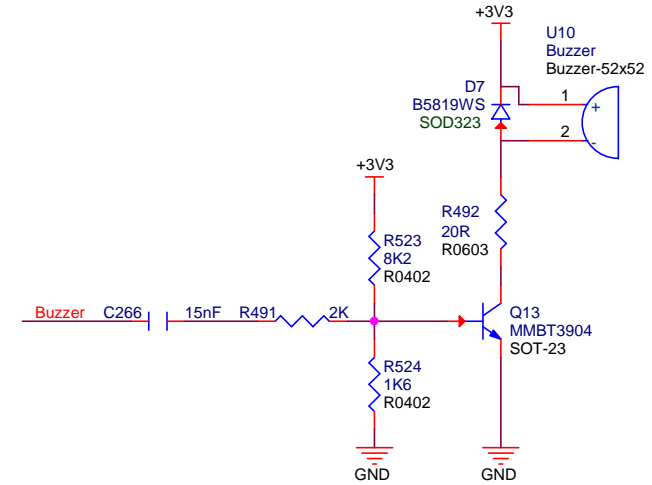
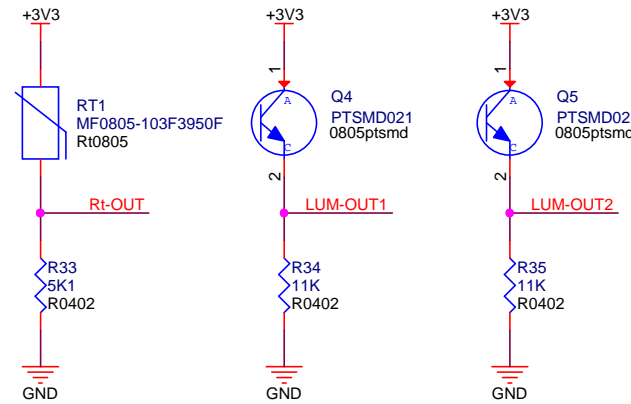


 http://www.banana-pi.org		SINOVOIP CO., LIMITED	
		Design Name BPi-Webduino-Bit	
Size A4	Page Name LED/Sensor		Rev V1.4
Date:	Friday, August 31, 2018		Sheet 3 of 5

03 Sensor

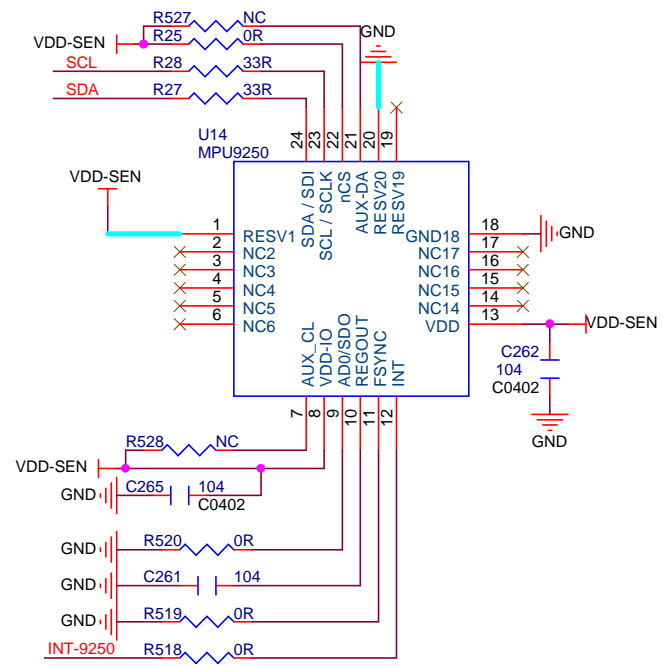
IO34 >> Rt-OUT
 IO36 >> LUM-OUT1
 IO39 >> LUM-OUT2
 IO25 >> Buzzer

+3V3



SCL >> IO22
 SDA >> IO21
 BIT-P4 >> IO15 INT-9250

+3V3 R31 0R VDD-SEN



SINOVOIP CO.,LIMITED		
Design Name		
BPI-Webduino-Bit		
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LED/Sensor		
Date: Friday, August 31, 2018	Sheet 4	of 5

REVISION HISTORY

Schematics Index:

Revision	Description	Date	Drawn	Checked	Approved
Ver 1.0	Release version	2018-01			
Ver 1.1		2018-03			
Ver 1.2	<p>1. CN1 的P1改为IO32 (复用VBAT-DET) 2. CN1 PIN35、37、39的网络改为+3V3-IO (可以输入、输出) 3. +3V3到VBAT增加两个肖特基二极管 (CN1输入也可以点亮LED) 4. USB口的输入改到VBAT (防止第3点改完后大电流) 5. 增加C263、C264 (电压低情况下, 改善ESP32容易复位的情况) 6. D3改为SMA封装, 使用2A的二极管 7. U12使能PIN改为接VCC, 上电默认开启LED电源</p> <p>BPI-WEBDUINO-BIT-V1.2 BOM修改方案: 1.D3、D5 采用1N5819/SMA 2.D4采用1N5819/SOD123 3.D6采用MBRA210ET3/SMA 4.R516 修改为16K-1%, 升压电路输出4.35V 5.R492改为20ohm</p>	2018-05			
Ver 1.3	<p>原理图修改: 1. 9250的中断脚改到IO16; 2. RESV1接VDDIO, RESV20接GND; 3. SCL/SDA上拉电阻改为10K。 4. NC:R524(影响烧录); R521,R522(释放P1); R518 (9250不需要) 5. C5改为22uF; R517改为130K, R516改为20K (输出电压调整); R34,R35改为11K (照度)</p> <p>PCB修改: 1. 温度检测sensor电源走线改5mil并拉长一点, sensor底下及周边不铺铜; 2. 9250散热焊盘去掉, 底层不走线; 3. A、B按键移到LED灯中间, webduino字符移到下排LED灯对齐; 4. light sensor尽量往上移动, 可以横着摆放; 现在的这个位置使用上稍微有遮挡到; 5. V1.2的D5、D6贴片丝印反了。</p>	2018-07			
Ver 1.4	<p>原理图修改: 1. 9250 1.1. AD0改为接地 1.2. INT改为IO16 1.3. 增加一个滤波电容 1.4. I2C串联电阻改为33R 1.5. I2C上拉改为5K1 2. 去掉U12:SY6280, 改为保险丝 3. 蜂鸣器线路修改 4. 增加R525、R526</p> <p>PCB修改: 1. 光感丝印已经改成跟实物一样</p>				