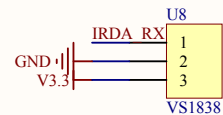
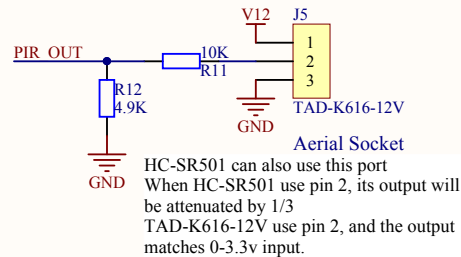
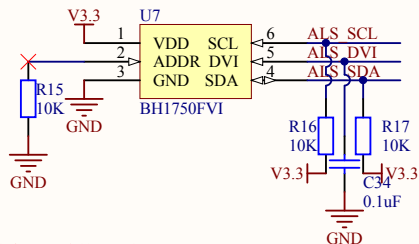
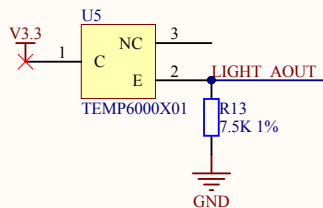


ETHERNET PHY

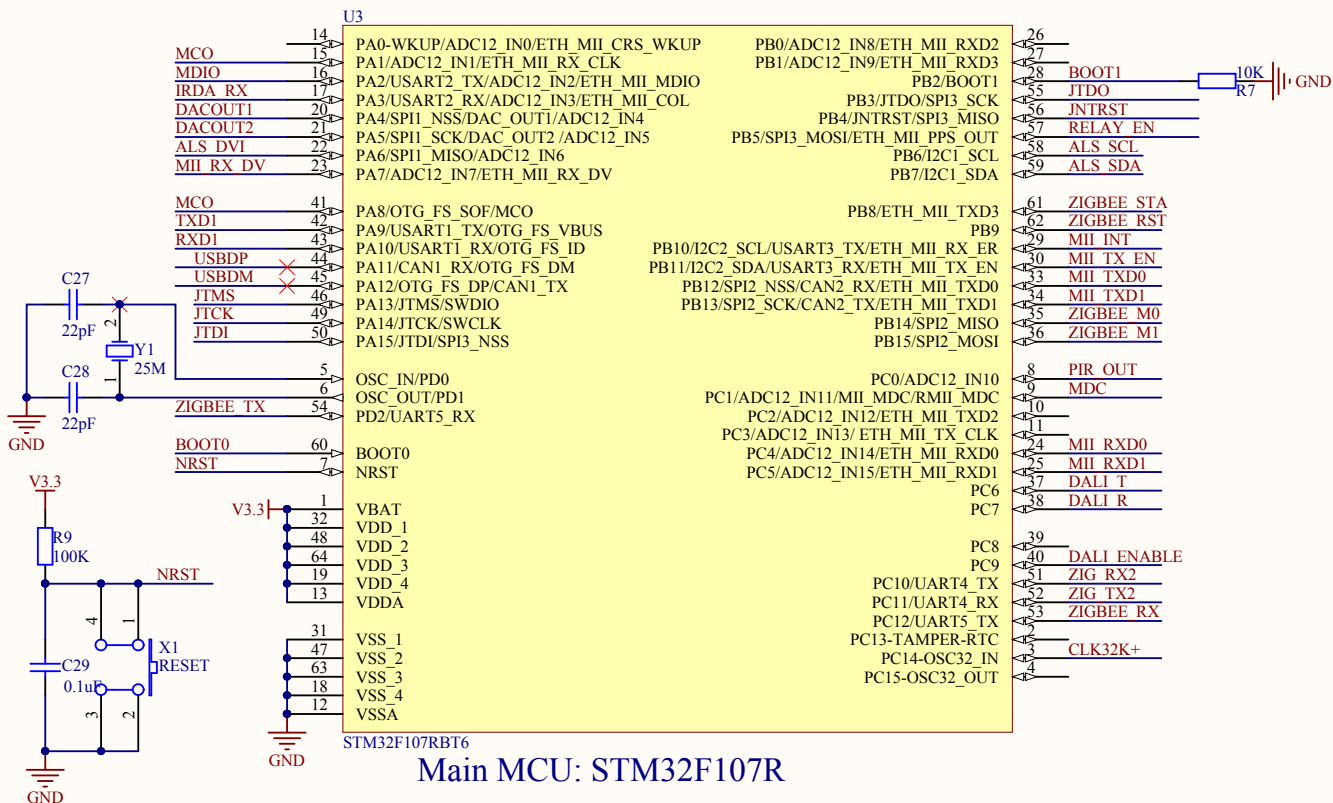
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File:	C:\guyg\Ethernet.SchDoc	Drawn By:



二个选项，需要测试性能，最终二选一

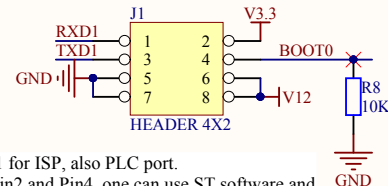
LIGHT SENSOR

两者需要测试性能，最终二者选一
HUMAN SENSOR(PIR)



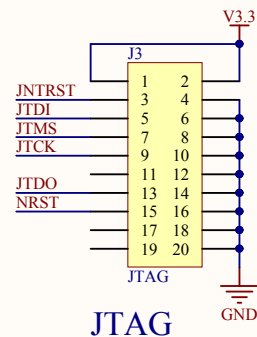
Main MCU: STM32F107R

BOOT1=x BOOT0=0 从用户闪存启动，这是正常的工作模式。
BOOT1=0 BOOT0=1 从系统存储器启动，这种模式启动的程序功能由厂家设置。
BOOT1=1 BOOT0=1 从内置SRAM启动，这种模式可以用于调试。



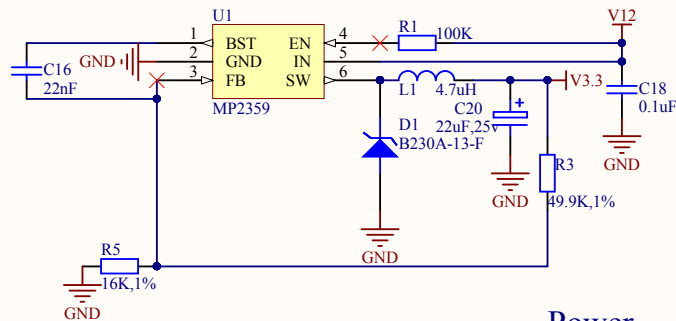
UART1 for ISP, also PLC port.
Short Pin2 and Pin4, one can use ST software and RXD1/TXD1 to program STM32F107 chip.
Or can use RXD1/TXD1, V12 and GND to connect PLC module

PLC & ISP port

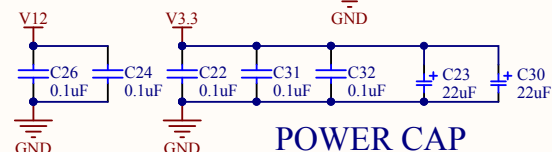
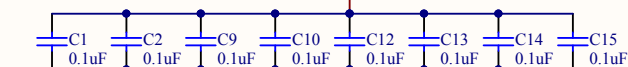
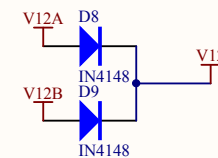
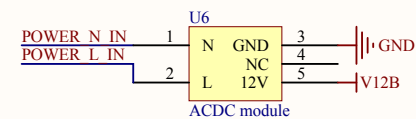
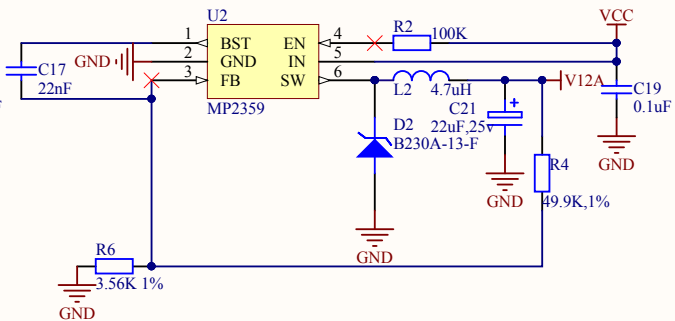


JTAG

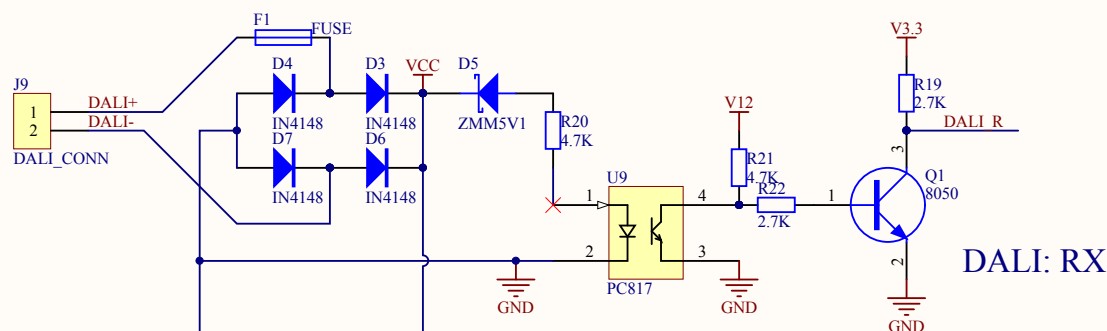
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Date:	2016-05-18	Sheet of
File:	C:\guyg\lmcu.SchDoc	Drawn By:



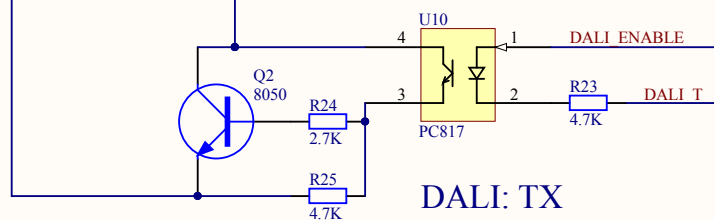
Power



POWER CAP

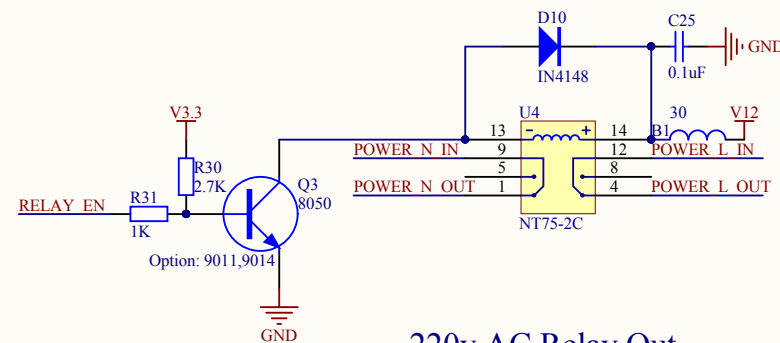
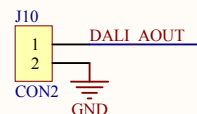


DALI: RX

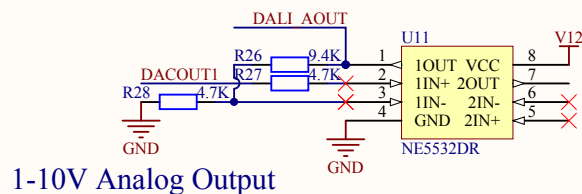


DALI: TX

Dali:
-6.5v - 6.5v ----- 0;
9.5v - 22.5v ----- 1

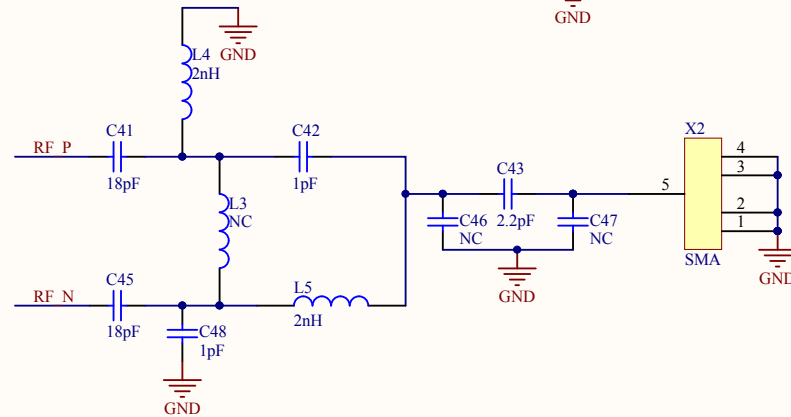
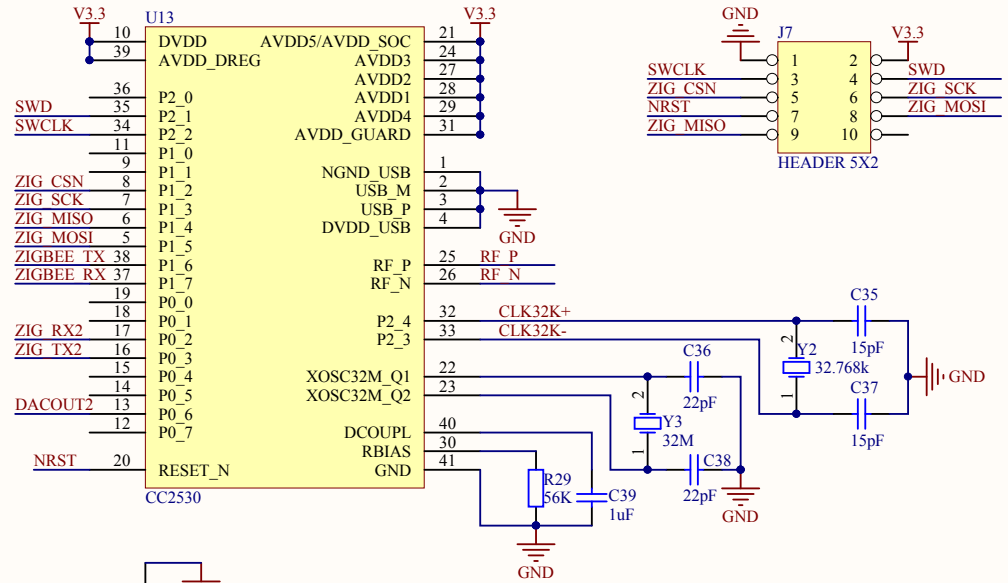
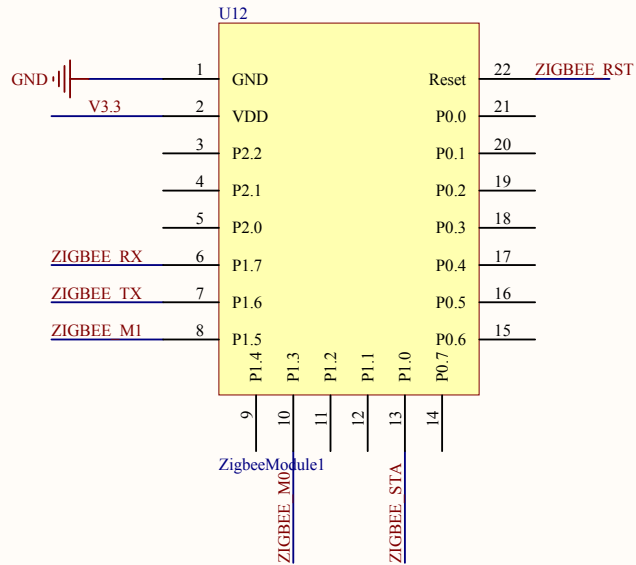


220v AC Relay Out



1-10V Analog Output

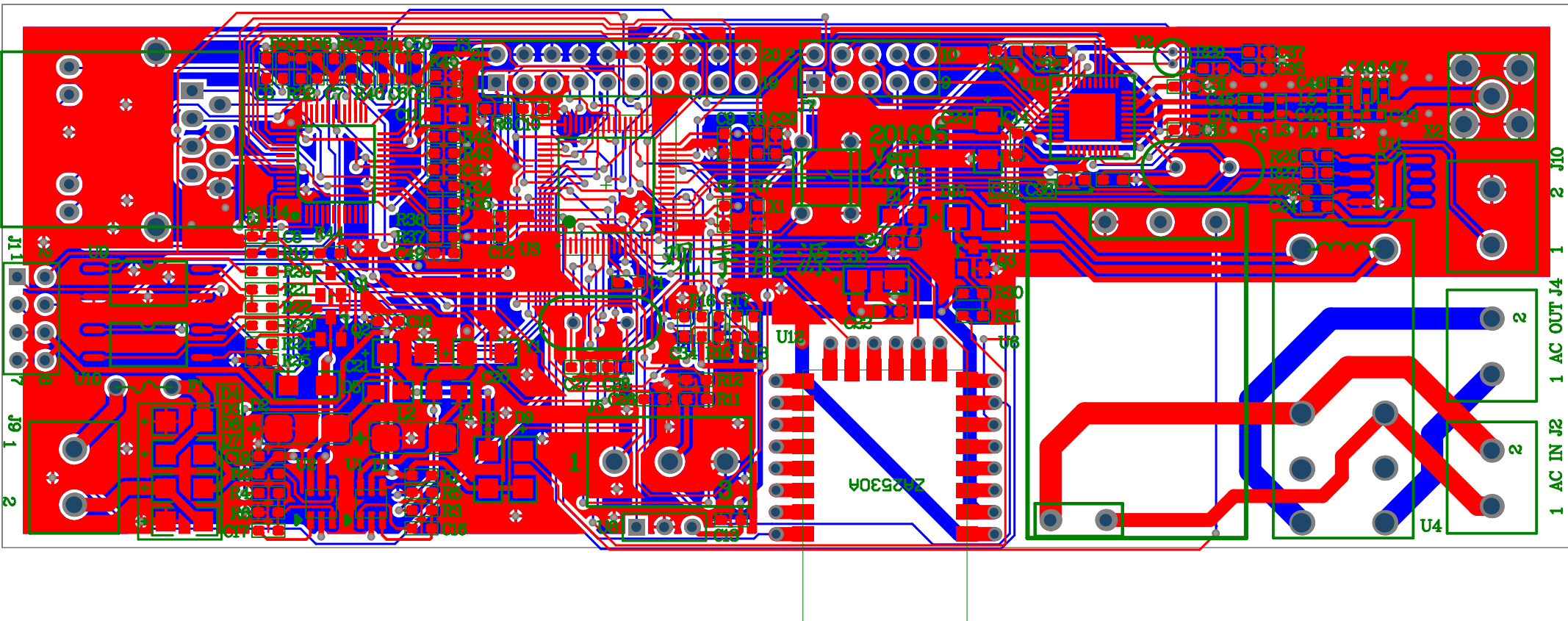
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File:	C:\guyg\ldali.SchDoc	Drawn By:



ZIGBEE MODULE(ZA2530A)

ZIGBEE CHIP(CC2530)

Title			
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Date:	2016-05-18	Sheet	of
File:	C:\guyg\zigbee.SchDoc	Drawn By:	



Comment	Description	Designator	Footprint	Quantity
30	叠层电感	B1	0805	1
0.1uF	Capacitor	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C12, C13, C14, C15, C18, C19, C22, C24, C25, C26, C29, C31, C32, C34, C49, C50	0603	26
10uF	Polarized Capacitor (Radial)	C11	0805	1
22nF	Capacitor	C16, C17	0603	2
22uF,25v		C20, C21	Cap_1206	2
22uF		C23, C30	cap_1206	2
22pF	Capacitor	C27, C28, C36, C38	0603	4
15pF	Capacitor	C35, C37	0603	2
1uF	Capacitor	C39	0603	1
18pF	Capacitor	C41, C45	0402	2
1pF	Capacitor	C42, C48	0402	2
2.2pF	Capacitor	C43	0402	1
NC	Capacitor, Capacitor, [NoValue]	C46, C47, L3	0402	3
B230A-13-F	Zener Diode	D1, D2	Diode_SCHOTTKY	2
IN4148		D3, D4, D6, D7, D10	DIODE_1206_AK	5
ZMM5V1	Schottky Diode	D5	DIODE_1206	1
IN4148		D8, D9	DIODE_1206	2
FUSE		F1	fuse	1
HEADER 4X2		J1	HDR2X4	1
CON2		J2, J4, J10	2EDG5.08-2P	3
JTAG	Header, 10-Pin, Dual row	J3	HDR2X10	1
TAD-K616-12V	Connector	J5	2EDG5.08-3P	1
HEADER 5X2		J7	HDR2X5	1
DALI_CONN		J9	2EDG5.08-2P	1
4.7uH	叠层电感	L1, L2	0805	2
2nH		L4, L5	0402	2
8050	NPN Transistor	Q1, Q2, Q3	SOT-23	3
100K	Resistor	R1, R2, R9	0603r	3
49.9K,1%	Resistor	R3, R4	0603r	2
16K,1%	Resistor	R5	0603r	1
3.56K 1%	Resistor	R6	0603r	1
10K	Resistor	R7, R8, R11, R15, R16, R17	0603R	6
4.9K	Resistor	R12	0603R	1
7.5K 1%	Resistor	R13	0603R	1
2.7K	Resistor	R19, R22, R24, R30	0603r	4
4.7K	Resistor	R20, R21, R23, R25, R27, R28	0603r	6
9.4K	Resistor	R26	0603r	1
56K	Resistor	R29	0603r	1
1K	Resistor	R31	0603r	1
240	Resistor	R32, R33	0603R	2
49.9 1%	Resistor	R34, R35, R36, R37	0603R	4
2.2K	Resistor	R38, R42, R43, R44	0603R	4
2K2	Resistor	R39, R40, R41	0603R	3
4.87K 1%	Resistor	R45	0603R	1
MP2359	Power Convertor	U1, U2	TSOT23-6	2
STM32F107RBT6	STM32 ARM-based 32-bit MCU with 128 Kbytes Flash, 64-pin LQFP, Industrial Temperature	U3	LQFP64_L	1
NT75-2C	Relay	U4	NT75-2C	1
TEMP6000X01		U5	TEMP6000X01	1
ACDC module	220v AC - 12DC module	U6	ACDC module-12v	1
BH1750FVI		U7	BH1750FVI	1
VS1838	Header, 3-Pin	U8	HDR1X3	1
PC817		U9, U10	SOP-4	2
NE5532DR		U11	SO-08	1
ZigbeeModule1		U12	ZA2530A_Socket	1
CC2530		U13	PVQFN-N40	1
DP83848CVV		U14	LQFP48S	1
RESET	SE PUSHBUTTON	X1	Button_6X6X5	1
SMA		X2	SMA-KE	1
HR911105A		X3	HR911105A	1
25M	Crystal Oscillator	Y1	HC49-U/S	1
32.768k	Crystal Oscillator	Y2	CSA_Crystal	1
32M	Crystal Oscillator	Y3	HC49-U/S	1