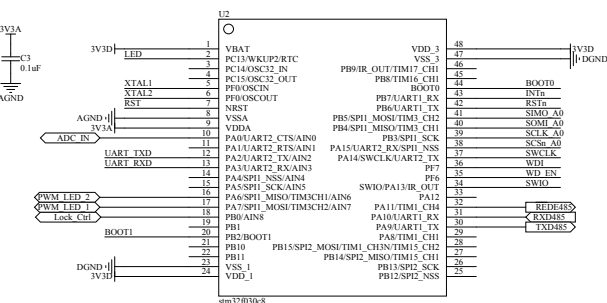




Pin	Signal	Pin	Signal	Pin	Signal
1	3V3D	12	I2C	47	VDD_3
2	LED	13	VBAT	48	48
3	PC13WKL2/RTC	14	PC14OSC3_IN	49	IVDD
4	PC14OSC3_IN	15	PC15OSC3_OUT	50	IVDDN
5	PC15OSC3_OUT	16	PC16OSC3_IN	51	PC16OSC3_IN
6	PC16OSC3_IN	17	PC17OSC3_OUT	52	PC17OSC3_OUT
7	PC17OSC3_OUT	18	PC18OSC3_IN	53	PC18OSC3_IN
8	PC18OSC3_IN	19	PC19OSC3_OUT	54	PC19OSC3_OUT
9	PC19OSC3_OUT	20	PC20OSC3_IN	55	PC20OSC3_IN
10	PC20OSC3_IN	21	PC21OSC3_OUT	56	PC21OSC3_OUT
11	PC21OSC3_OUT	22	PC22OSC3_IN	57	PC22OSC3_IN
12	PC22OSC3_IN	23	PC23OSC3_OUT	58	PC23OSC3_OUT
13	PC23OSC3_OUT	24	PC24OSC3_IN	59	PC24OSC3_IN
14	PC24OSC3_IN	25	PC25OSC3_OUT	60	PC25OSC3_OUT
15	PC25OSC3_OUT	26	PC26OSC3_IN	61	PC26OSC3_IN
16	PC26OSC3_IN	27	PC27OSC3_OUT	62	PC27OSC3_OUT
17	PC27OSC3_OUT	28	PC28OSC3_IN	63	PC28OSC3_IN
18	PC28OSC3_IN	29	PC29OSC3_OUT	64	PC29OSC3_OUT
19	PC29OSC3_OUT	30	PC30OSC3_IN	65	PC30OSC3_IN
20	PC30OSC3_IN	31	PC31OSC3_OUT	66	PC31OSC3_OUT
21	PC31OSC3_OUT	32	PC32OSC3_IN	67	PC32OSC3_IN
22	PC32OSC3_IN	33	PC33OSC3_OUT	68	PC33OSC3_OUT
23	PC33OSC3_OUT	34	PC34OSC3_IN	69	PC34OSC3_IN
24	PC34OSC3_IN	35	PC35OSC3_OUT	70	PC35OSC3_OUT
25	PC35OSC3_OUT	36	PC36OSC3_IN	71	PC36OSC3_IN
26	PC36OSC3_IN	37	PC37OSC3_OUT	72	PC37OSC3_OUT
27	PC37OSC3_OUT	38	PC38OSC3_IN	73	PC38OSC3_IN
28	PC38OSC3_IN	39	PC39OSC3_OUT	74	PC39OSC3_OUT
29	PC39OSC3_OUT	40	PC40OSC3_IN	75	PC40OSC3_IN
30	PC40OSC3_IN	41	PC41OSC3_OUT	76	PC41OSC3_OUT
31	PC41OSC3_OUT	42	PC42OSC3_IN	77	PC42OSC3_IN
32	PC42OSC3_IN	43	PC43OSC3_OUT	78	PC43OSC3_OUT
33	PC43OSC3_OUT	44	PC44OSC3_IN	79	PC44OSC3_IN
34	PC44OSC3_IN	45	PC45OSC3_OUT	80	PC45OSC3_OUT
35	PC45OSC3_OUT	46	PC46OSC3_IN	81	PC46OSC3_IN
36	PC46OSC3_IN	47	PC47OSC3_OUT	82	PC47OSC3_OUT
37	PC47OSC3_OUT	48	PC48OSC3_IN	83	PC48OSC3_IN
38	PC48OSC3_IN	49	PC49OSC3_OUT	84	PC49OSC3_OUT
39	PC49OSC3_OUT	50	PC50OSC3_IN	85	PC50OSC3_IN
40	PC50OSC3_IN	51	PC51OSC3_OUT	86	PC51OSC3_OUT
41	PC51OSC3_OUT	52	PC52OSC3_IN	87	PC52OSC3_IN
42	PC52OSC3_IN	53	PC53OSC3_OUT	88	PC53OSC3_OUT
43	PC53OSC3_OUT	54	PC54OSC3_IN	89	PC54OSC3_IN
44	PC54OSC3_IN	55	PC55OSC3_OUT	90	PC55OSC3_OUT
45	PC55OSC3_OUT	56	PC56OSC3_IN	91	PC56OSC3_IN
46	PC56OSC3_IN	57	PC57OSC3_OUT	92	PC57OSC3_OUT
47	PC57OSC3_OUT	58	PC58OSC3_IN	93	PC58OSC3_IN
48	PC58OSC3_IN	59	PC59OSC3_OUT	94	PC59OSC3_OUT
49	PC59OSC3_OUT	60	PC60OSC3_IN	95	PC60OSC3_IN
50	PC60OSC3_IN	61	PC61OSC3_OUT	96	PC61OSC3_OUT
51	PC61OSC3_OUT	62	PC62OSC3_IN	97	PC62OSC3_IN
52	PC62OSC3_IN	63	PC63OSC3_OUT	98	PC63OSC3_OUT
53	PC63OSC3_OUT	64	PC64OSC3_IN	99	PC64OSC3_IN
54	PC64OSC3_IN	65	PC65OSC3_OUT	100	PC65OSC3_OUT
55	PC65OSC3_OUT	66	PC66OSC3_IN	101	PC66OSC3_IN
56	PC66OSC3_IN	67	PC67OSC3_OUT	102	PC67OSC3_OUT
57	PC67OSC3_OUT	68	PC68OSC3_IN	103	PC68OSC3_IN
58	PC68OSC3_IN	69	PC69OSC3_OUT	104	PC69OSC3_OUT
59	PC69OSC3_OUT	70	PC70OSC3_IN	105	PC70OSC3_IN
60	PC70OSC3_IN	71	PC71OSC3_OUT	106	PC71OSC3_OUT
61	PC71OSC3_OUT	72	PC72OSC3_IN</		



电路

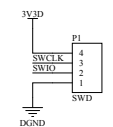
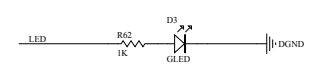
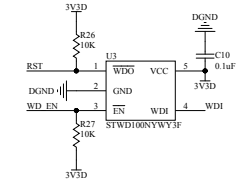
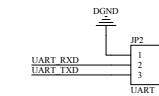
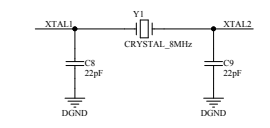
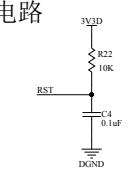
3V3D

R22  
10K

RST

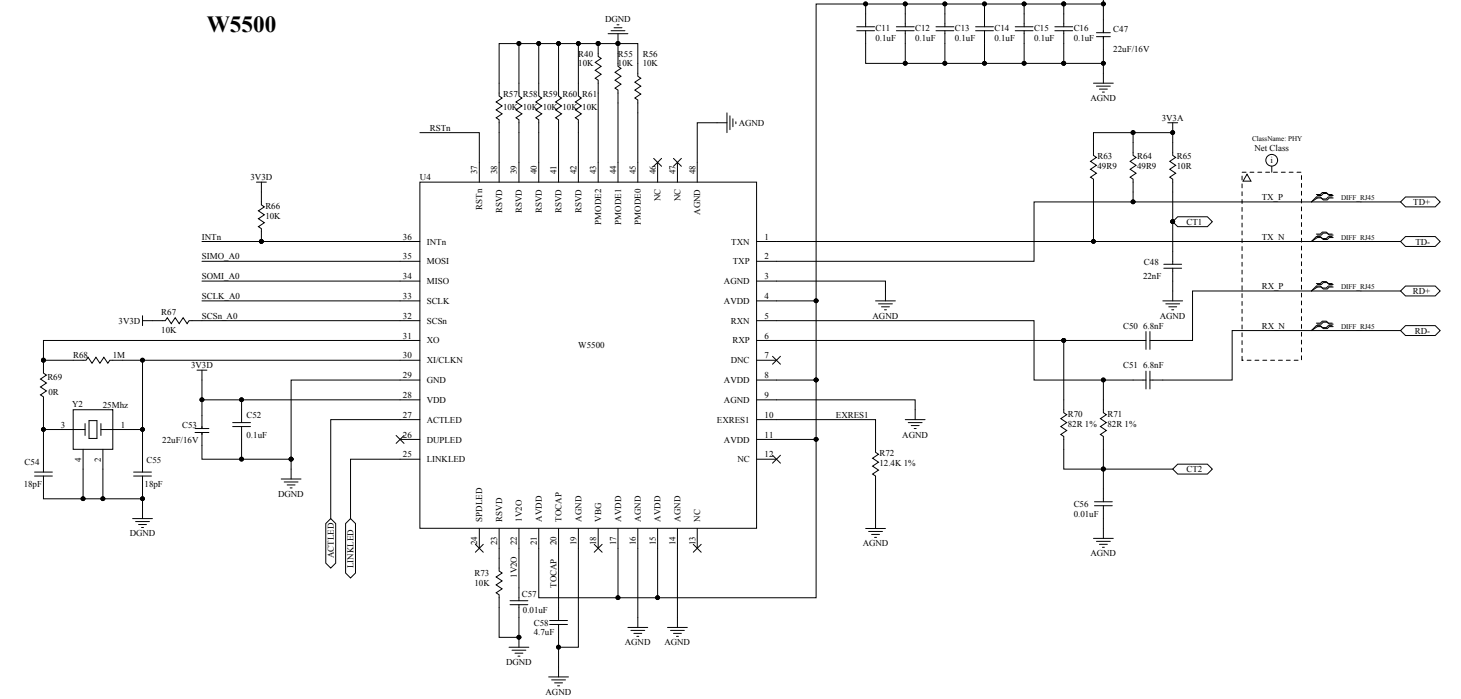
C4  
0.1uF

DGND



The schematic diagram illustrates the W5500 module, a network interface controller. The central component is the W5500 IC, which is connected to various external components and pins. Key components include:

- Crystal and Timing:** A 25MHz crystal (Y2) is connected to pins 28 (VDD) and 27 (ACTLED). Timing capacitors C51 (22uF/16V) and C52 (0.1uF) are connected to the crystal. Other capacitors include C54 (18pF), C55 (18pF), C56 (0.01uF), C57 (0.01uF), C58 (4.7uF), C59 (0.1uF), C60 (0.1uF), C61 (0.1uF), C62 (0.1uF), C63 (0.1uF), C64 (0.1uF), C65 (0.1uF), C66 (0.1uF), C67 (0.1uF), C68 (0.1uF), C69 (0.1uF), C70 (0.1uF), C71 (0.1uF), C72 (0.1uF), C73 (0.1uF), C74 (0.1uF), C75 (0.1uF), C76 (0.1uF), C77 (0.1uF), C78 (0.1uF), C79 (0.1uF), C80 (0.1uF), C81 (0.1uF), C82 (0.1uF), C83 (0.1uF), C84 (0.1uF), C85 (0.1uF), C86 (0.1uF), C87 (0.1uF), C88 (0.1uF), C89 (0.1uF), C90 (0.1uF), C91 (0.1uF), C92 (0.1uF), C93 (0.1uF), C94 (0.1uF), C95 (0.1uF), C96 (0.1uF), C97 (0.1uF), C98 (0.1uF), C99 (0.1uF), C100 (0.1uF).
- Resistors:** Various resistors are used for pull-up and pull-down, including R66 (10K), R67 (10K), R68 (1M), R69 (10K), R70 (10K), R71 (10K), R72 (10K), R73 (10K), R74 (10K), R75 (10K), R76 (10K), R77 (10K), R78 (10K), R79 (10K), R80 (10K), R81 (10K), R82 (10K), R83 (10K), R84 (10K), R85 (10K), R86 (10K), R87 (10K), R88 (10K), R89 (10K), R90 (10K), R91 (10K), R92 (10K), R93 (10K), R94 (10K), R95 (10K), R96 (10K), R97 (10K), R98 (10K), R99 (10K), R100 (10K).
- Power and Grounding:** The module is powered by a 3V3D supply. Grounding is established through multiple AGND and DGND points.
- Signal Pins:** The module has several signal pins, including TXN, TXP, RXN, RXP, and EXRES1, which are connected to external components like capacitors and resistors.



Title BingoBin网络控制模块		
Size A2	Number BGDC-518-01 BG-HRD18-0108014	Revision V1.0.10
Date: 2018/1/8	Sheet 3 of 4	
File: C:\Users\jbg_MCU\SchDoc	Drawn By:	

LED驱动/烟雾报警

此部分电路是烟雾报警、LED灯和485通讯接口复用电路，

不同功能焊接器件不同,参考以下说明：

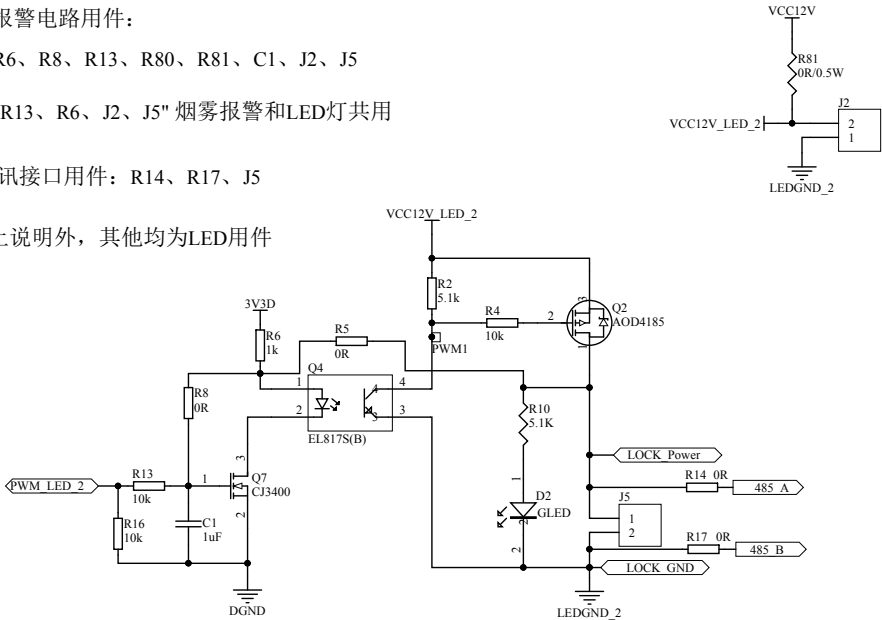
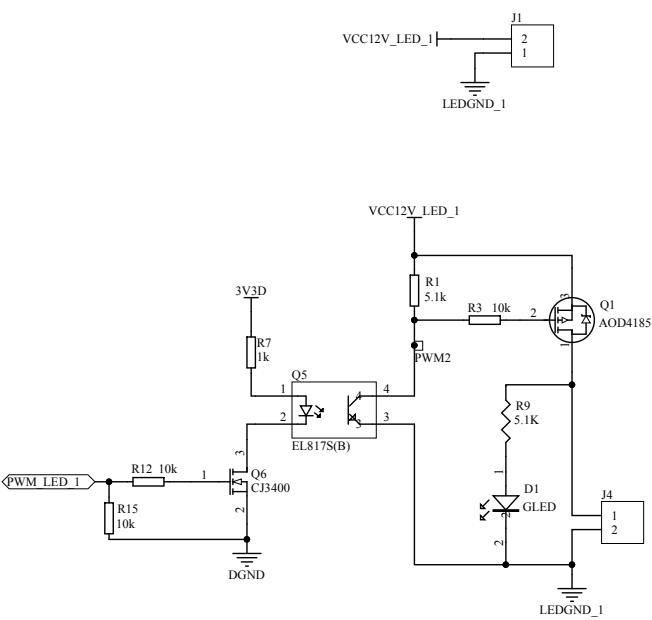
烟雾报警电路用件：

R5、R6、R8、R13、R80、R81、C1、J2、J5

其中 "R13、R6、J2、J5" 烟雾报警和LED灯共用

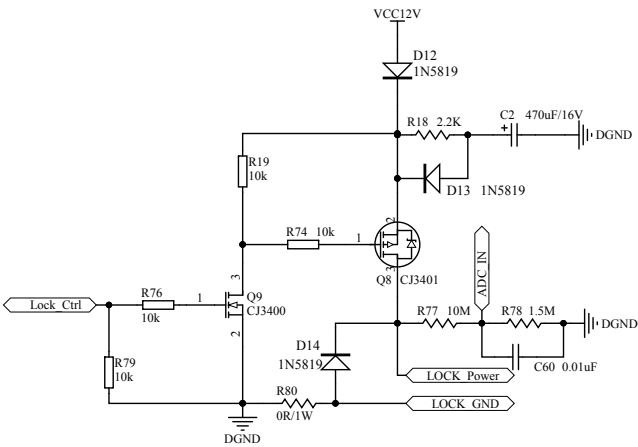
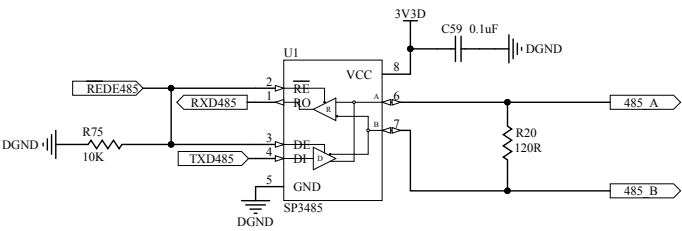
485通讯接口用件：R14、R17、J5

除以上说明外，其他均为LED用件



485通信

门锁驱动



Title			
BingoBin网络控制模块			
Size	Number	Revision	
A3	BGDC-518-01	BG-HRD18-0108014	V1.0.10
Date:	2018/1/8	Sheet	4of 4
File:	C:\Users\bg_sensor\SchDoc	Drawn By:	