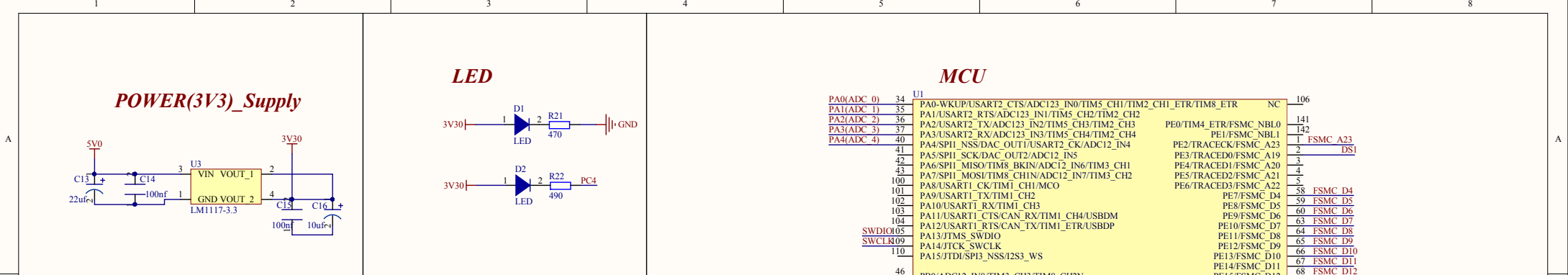


### POWER(3V3)\_Supply

### LED

### MCU

Pin	Signal	Pin	Signal
PA0(ADC 0)	34	PA0-WKUP/USART2_CTS/ADC123_IN0/TIM5_CH1/TIM2_CH1_ETR/TIM8_ETR	NC
PA1(ADC 1)	35	PA1/USART2_RTS/ADC123_IN1/TIM5_CH2/TIM2_CH2	141
PA2(ADC 2)	36	PA2/USART2_TX/ADC123_IN2/TIM5_CH3/TIM2_CH3	142
PA3(ADC 3)	37	PA3/USART2_RX/ADC123_IN3/TIM5_CH4/TIM2_CH4	2
PA4(ADC 4)	40	PA4/SP11_NSS/DAC_OUT1/USART2_CK/ADC12_IN4	1 FSMC A23
	41	PA5/SP11_SCK/DAC_OUT2/ADC12_IN5	DS1
	42	PA6/SP11_MISO/TIM8_BKIN/ADC12_IN6/TIM3_CH1	3
	43	PA7/SP11_MOSI/TIM8_CH1N/ADC12_IN7/TIM3_CH2	4
	100	PA8/USART1_CK/TIM1_CH1/MCO	5
	101	PA9/USART1_TX/TIM1_CH2	58 FSMC D4
	102	PA10/USART1_RX/TIM1_CH3	59 FSMC D5
	103	PA11/USART1_CTS/CAN_RX/TIM1_CH4/USBDM	60 FSMC D6
	104	PA12/USART1_RTS/CAN_TX/TIM1_ETR/USBDP	63 FSMC D7
SWDIO65		PA13/JTMS_SWIO	64 FSMC D8
SWCLK809		PA14/JTCK_SWCLK	65 FSMC D9
	110	PA15/JTDS/SP11_NSS/42S3_WS	66 FSMC D10
	46	PD0/ADC12_IN8/TIM3_CH3/TIM4_CH2N	67 FSMC D11
			68 FSMC D12

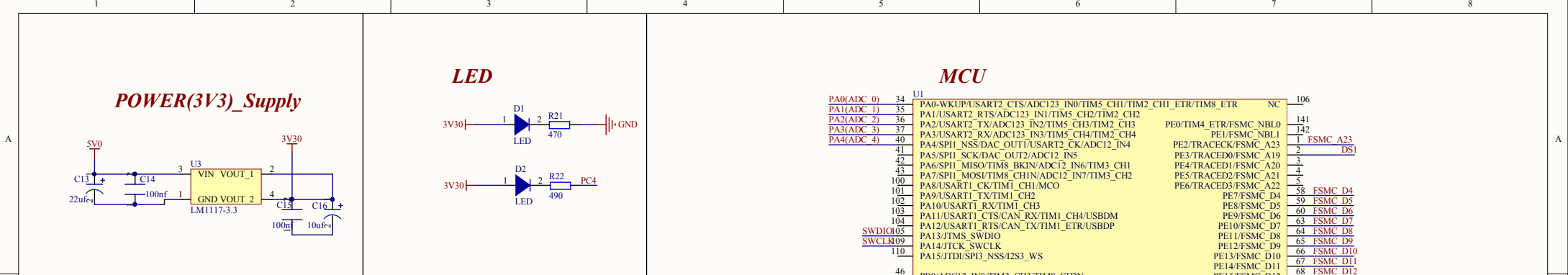


### POWER(3V3)\_Supply

### LED

### MCU

<div style="display: flex; justify-content: space-between;"> <div> PA0(ADC 0) 34  PA1(ADC 1) 35  PA2(ADC 2) 36  PA3(ADC 3) 37  PA4(ADC 4) 40  41  42  43  100  101  102  103  104  SWDIO65  SWCLK09  110  46 </div> <div> PA0-WKUP/USART2_CTS/ADC123_IN0/TIM5_CH1/TIM2_CH1_ETR/TIM8_ETR  PA1/USART2_RTS/ADC123_IN1/TIM5_CH2/TIM2_CH2  PA2/USART2_TX/ADC123_IN2/TIM5_CH3/TIM2_CH3  PA3/USART2_RX/ADC123_IN3/TIM5_CH4/TIM2_CH4  PA4/SP11_NSS/DAC_OUT1/USART2_CK/ADC12_IN4  PA5/SP11_SCK/DAC_OUT2/ADC12_IN5  PA6/SP11_MISO/TIM8_BKIN/ADC12_IN6/TIM3_CH1  PA7/SP11_MOSI/TIM8_CH1N/ADC12_IN7/TIM3_CH2  PA8/USART1_CK/TIM1_CH1/MCO  PA9/USART1_TX/TIM1_CH2  PA10/USART1_RX/TIM1_CH3  PA11/USART1_CTS/CAN_RX/TIM1_CH4/USBDM  PA12/USART1_RTS/CAN_TX/TIM1_ETR/USBDP  PA13/JTMS_SWDIO  PA14/JTCK_SWCLK  PA15/JTDF/SP11_NSS/42S3_WS </div> </div>	<div style="display: flex; justify-content: space-between;"> <div> U1  NC  141  142  2  1  2  3  4  5  58  59  60  63  64  65  66  67  68 </div> <div> PE0/TIM4_ETR/FSMC_NBL0  PE1/FSMC_NBL1  PE2/TRACED0/FSMC_A23  PE3/TRACED0/FSMC_A19  PE4/TRACED1/FSMC_A20  PE5/TRACED2/FSMC_A21  PE6/TRACED3/FSMC_A22  PE7/FSMC_D4  PE8/FSMC_D5  PE9/FSMC_D6  PE10/FSMC_D7  PE11/FSMC_D8  PE12/FSMC_D9  PE13/FSMC_D10  PE14/FSMC_D11 </div> </div>
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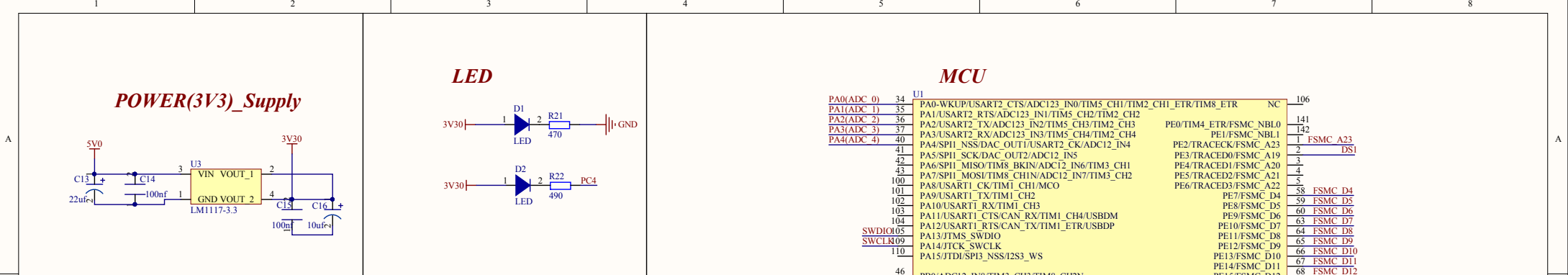


### POWER(3V3)\_Supply

### LED

### MCU

Pin	Signal	Pin	Signal
PA0(ADC 0)	34	PA0-WKUP/USART2_CTS/ADC123_IN0/TIM5_CH1/TIM2_CH1_ETR/TIM8_ETR	NC
PA1(ADC 1)	35	PA1/USART2_RTS/ADC123_IN1/TIM5_CH2/TIM2_CH2	141
PA2(ADC 2)	36	PA2/USART2_TX/ADC123_IN2/TIM5_CH3/TIM2_CH3	142
PA3(ADC 3)	37	PA3/USART2_RX/ADC123_IN3/TIM5_CH4/TIM2_CH4	2
PA4(ADC 4)	40	PA4/SP11_NSS/DAC_OUT1/USART2_CK/ADC12_IN4	1 FSMC A23
	41	PA5/SP11_SCK/DAC_OUT2/ADC12_IN5	2 DS1
	42	PA6/SP11_MISO/TIM8_BKIN/ADC12_IN6/TIM3_CH1	3
	43	PA7/SP11_MOSI/TIM8_CH1N/ADC12_IN7/TIM3_CH2	4
	100	PA8/USART1_CK/TIM1_CH1/MCO	5
	101	PA9/USART1_TX/TIM1_CH2	58 FSMC D4
	102	PA10/USART1_RX/TIM1_CH3	59 FSMC D5
	103	PA11/USART1_CTS/CAN_RX/TIM1_CH4/USBDM	60 FSMC D6
	104	PA12/USART1_RTS/CAN_TX/TIM1_ETR/USBDP	63 FSMC D7
SWDIO65	105	PA13/JTMS_SWIO	64 FSMC D8
SWCLK809	106	PA14/JTCK_SWCLK	65 FSMC D9
	110	PA15/JTDS/SP11_NSS/42S3_WS	66 FSMC D10
	46	PD0/ADC12_IN8/TIM3_CH3/TIM4_CH2N	67 FSMC D11
			68 FSMC D12

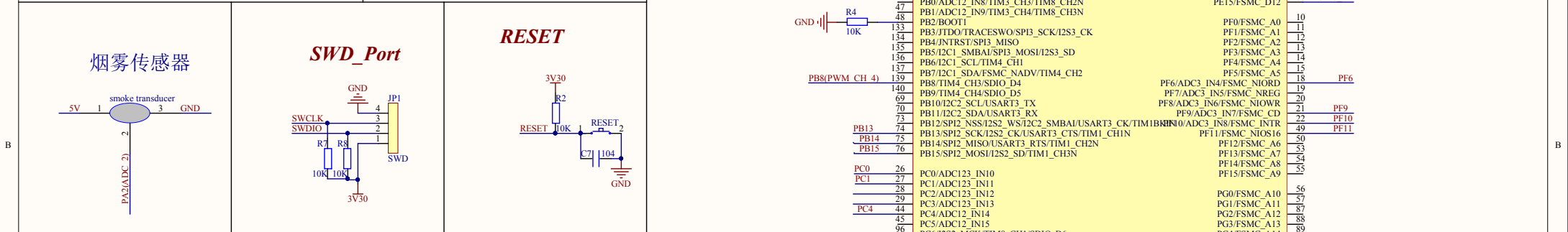


### 烟雾传感器

### SWD\_Port

### RESET

Pin		Function	Pin	Function
47	48	PF0/FSMC_A0	10	
49	50	PF1/FSMC_A1	11	
51	52	PF2/FSMC_A2	12	
53	54	PF3/FSMC_A3	13	
55	56	PF4/FSMC_A4	14	
57	58	PF5/FSMC_A5	15	
59	60	PF6/ADC3_IN4/FSMC_NIORD	18	PF6
61	62	PF7/ADC3_IN5/FSMC_NIOWR	19	
63	64	PF8/ADC3_IN6/FSMC_NIOWR	20	
65	66	PF9/ADC3_IN7/FSMC_CD	21	PF9
67	68	PF10/ADC3_IN8/FSMC_INTR	22	PF10
69	70	PF11/FSMC_NIOS16	49	PF11
71	72	PF12/FSMC_A6	50	
73	74	PF13/FSMC_A7	51	
75	76	PF14/FSMC_A8	52	
77	78	PF15/FSMC_A9	53	
79	80	PG0/FSMC_A10	56	
81	82	PG1/FSMC_A11	57	
83	84	PG2/FSMC_A12	87	
85	86	PG3/FSMC_A13	88	
87	88	PG4/FSMC_A14	89	
89	90	PG5/FSMC_A15	90	

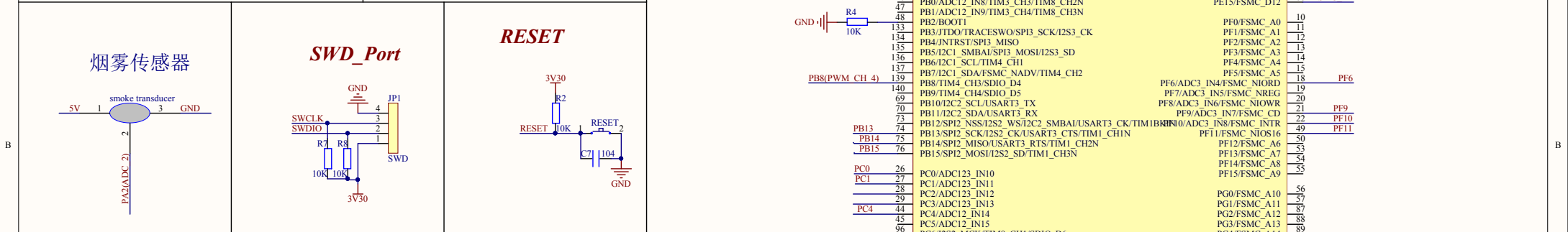


### 烟雾传感器

### SWD\_Port

### RESET

Pin		Function	Pin	Function
47	48	PF0/FSMC_A0	10	
49	50	PF1/FSMC_A1	11	
51	52	PF2/FSMC_A2	12	
53	54	PF3/FSMC_A3	13	
55	56	PF4/FSMC_A4	14	
57	58	PF5/FSMC_A5	15	
59	60	PF6/ADC3_IN4/FSMC_NIORD	18	PF6
61	62	PF7/ADC3_IN5/FSMC_NIOWR	19	
63	64	PF8/ADC3_IN6/FSMC_NIOWR	20	
65	66	PF9/ADC3_IN7/FSMC_CD	21	PF9
67	68	PF10/ADC3_IN8/FSMC_INTR	22	PF10
69	70	PF11/FSMC_NIOS16	49	PF11
71	72	PF12/FSMC_A6	50	
73	74	PF13/FSMC_A7	51	
75	76	PF14/FSMC_A8	52	
77	78	PF15/FSMC_A9	53	
79	80	PG0/FSMC_A10	56	
81	82	PG1/FSMC_A11	57	
83	84	PG2/FSMC_A12	87	
85	86	PG3/FSMC_A13	88	
87	88	PG4/FSMC_A14	89	
89	90	PG5/FSMC_A15	90	

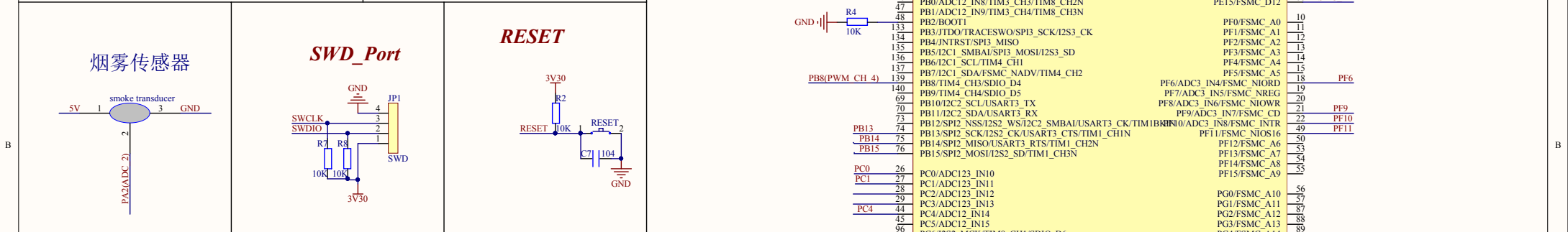
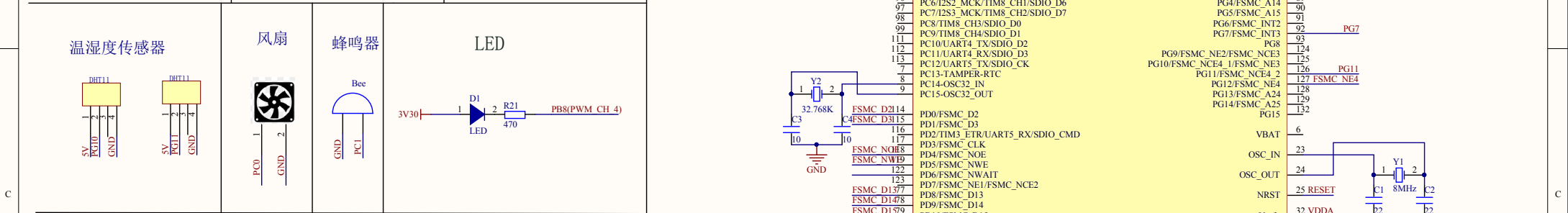
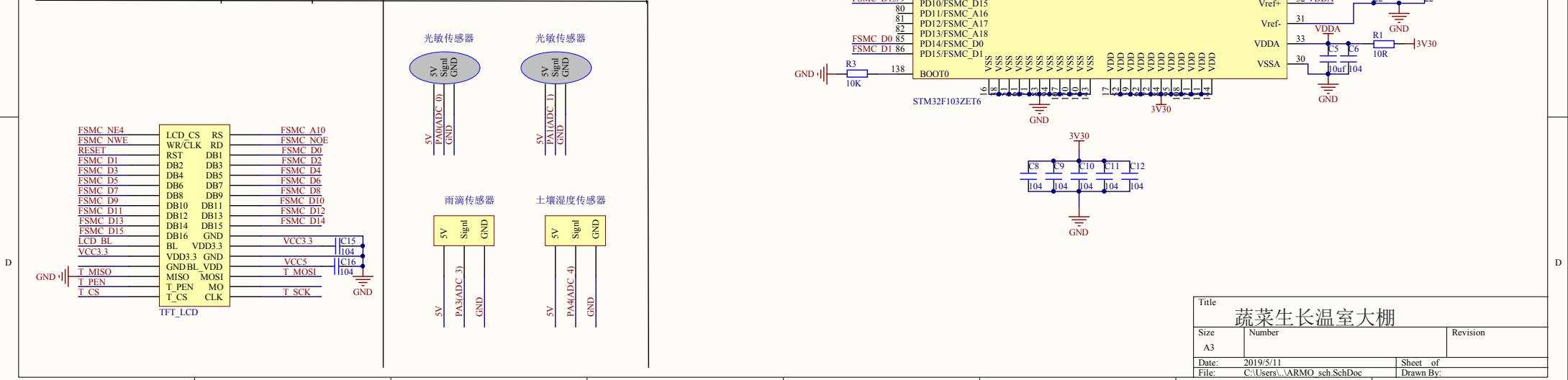
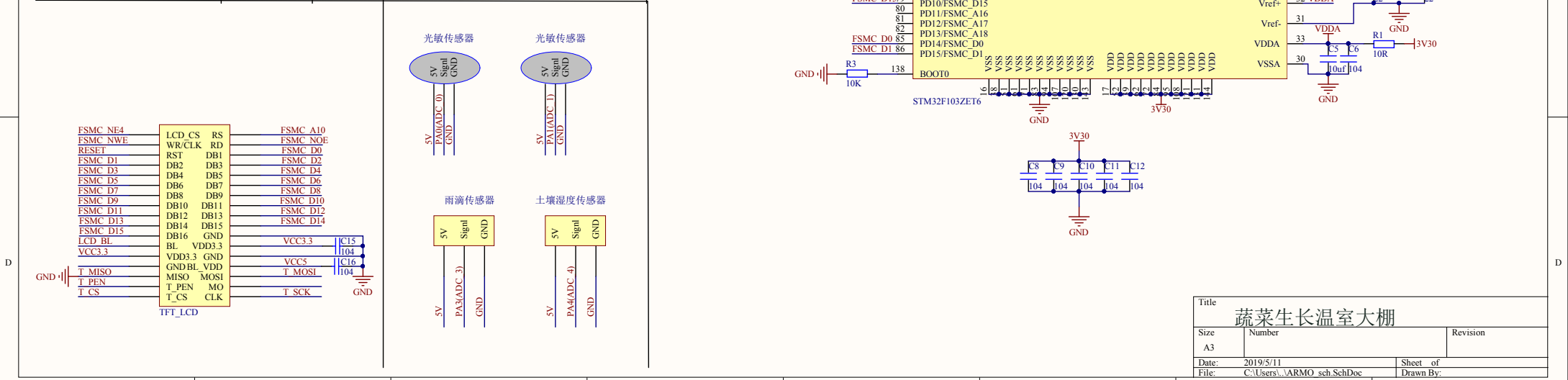
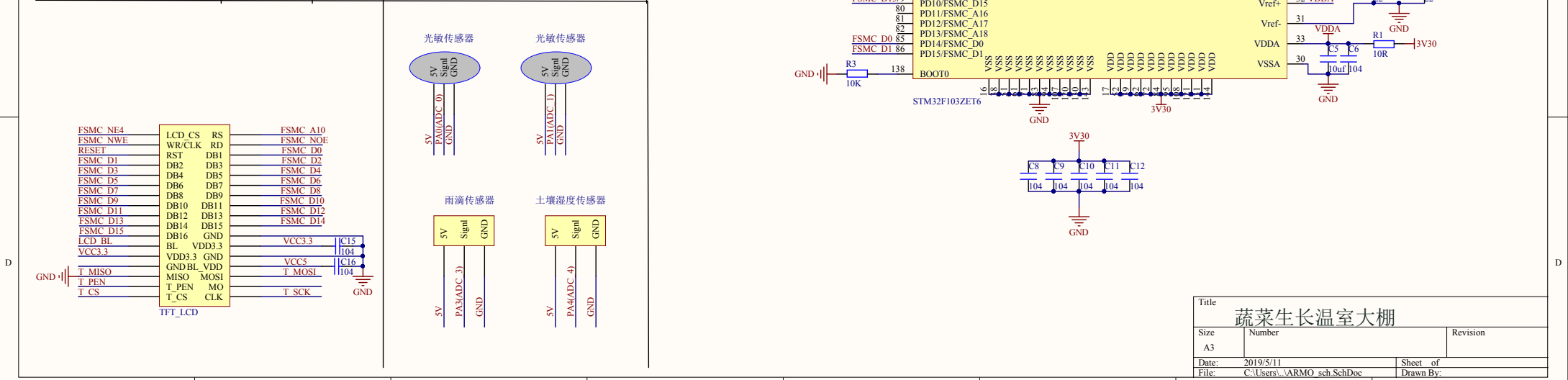
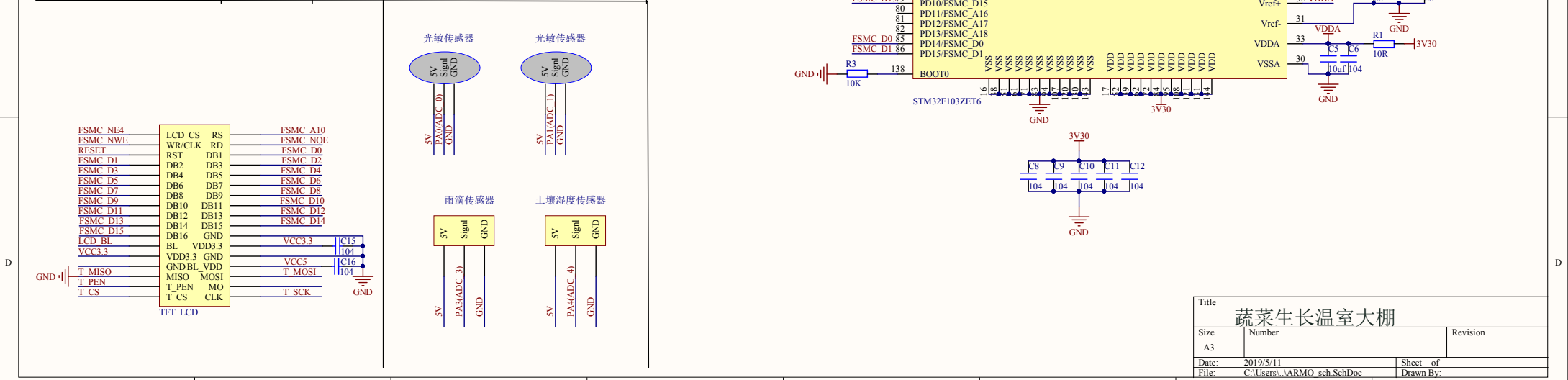
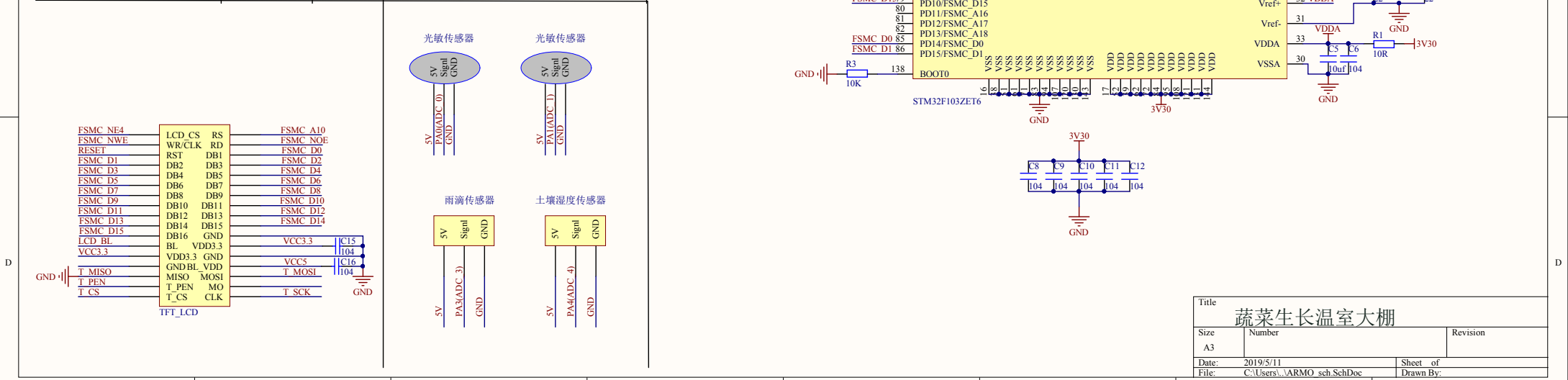
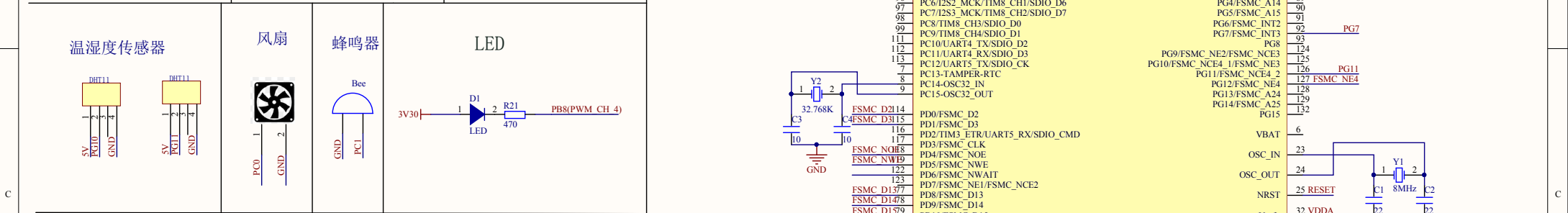
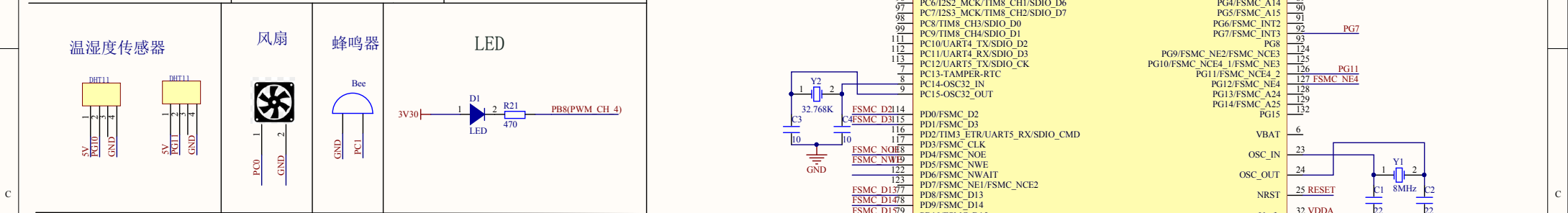
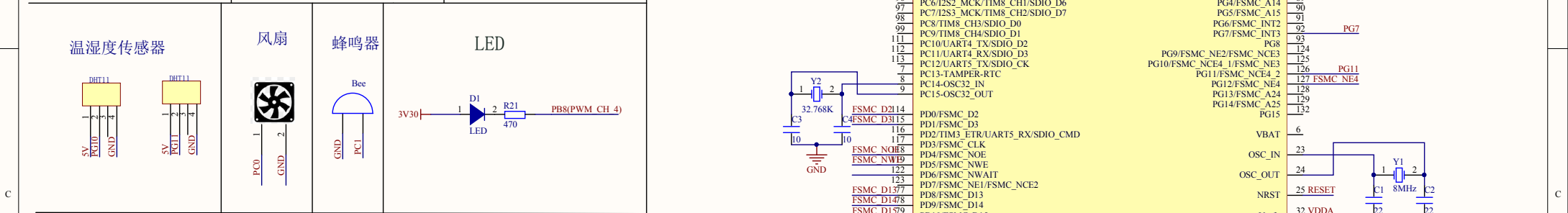
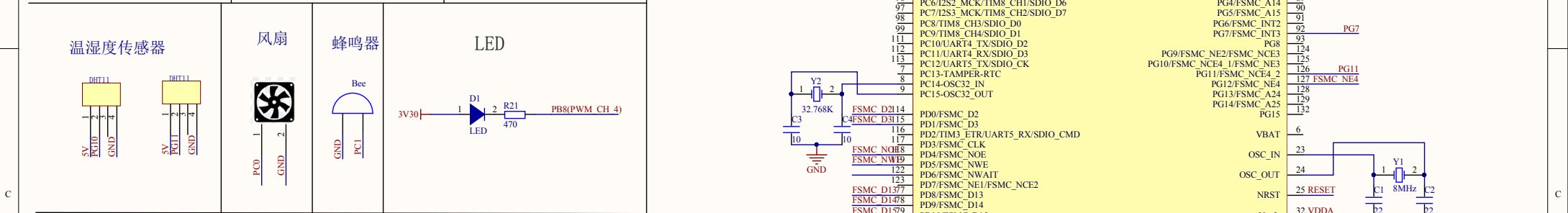
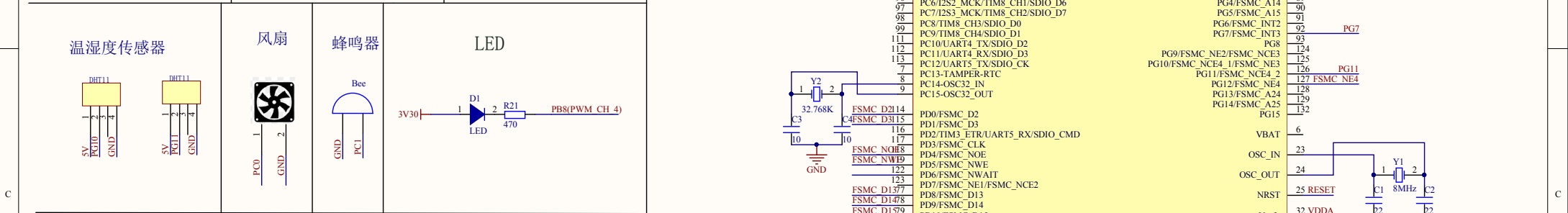
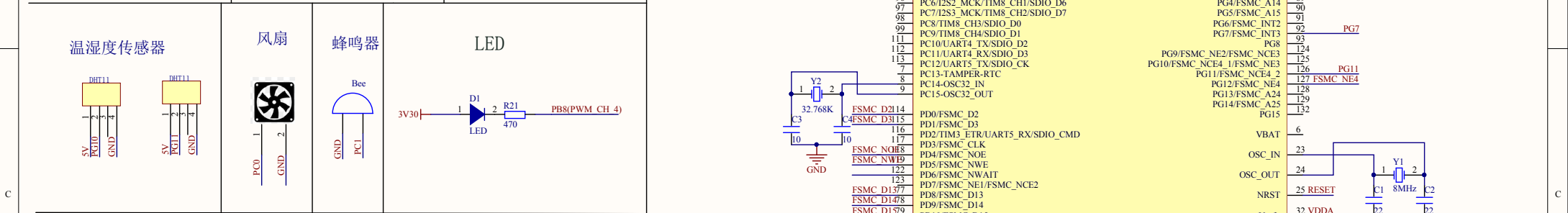


### 烟雾传感器

### SWD\_Port

### RESET

PC15/FSMC_D12		PF0/FSMC_A0	
47	PB1/ADC12_IN8/TIM3_CH3/TIM8_CH2N	10	PF0/FSMC_A0
48	PB1/ADC12_IN9/TIM3_CH4/TIM8_CH3N	11	PF1/FSMC_A1
133	PB2/BOOT1	12	PF2/FSMC_A2
134	PB3/JTDO/TRACESWO/SP3_SCK/I2S3_CK	13	PF3/FSMC_A3
135	PB4/INTRST/SP3_MISO	14	PF4/FSMC_A4
136	PB5/I2C1_SMBAL/SP3_MOSI/I2S3_SD	15	PF5/FSMC_A5
137	PB6/I2C1_SCL/TIM4_CH1	16	PF6/ADC3_IN4/FSMC_NIOR0
139	PB7/I2C1_SDA/FSMC_NADV/TIM4_CH2	18	PF7/ADC3_IN5/FSMC_NIORD
140	PB8/TIM4_CH3/SDIO_D4	19	PF8/ADC3_IN6/FSMC_NIOWR
69	PB9/TIM4_CH4/SDIO_D5	20	PF9/ADC3_IN7/FSMC_CD
70	PB10/I2C2_SCL/USART3_TX	21	PF10/FSMC_A6
73	PB11/I2C2_SDA/USART3_RX	22	PF11/FSMC_A7
74	PB12/SP2_NSS/I2S2_WS/I2C2_SMBAL/USART3_CK/TIM1/BR10/ADC3_IN8/FSMC_INTR	23	PF12/FSMC_A8
75	PB13/SP2_SCK/I2S2_CK/USART3_CTS/TIM1_CH1N	24	PF13/FSMC_A9
76	PB14/SP2_MISO/USART3_RTS/TIM1_CH2N	56	PG0/FSMC_A10
	PB15/SP2_MOSI/I2S2_SD/TIM1_CH3N	57	PG1/FSMC_A11
26	PC0/ADC123_IN10	87	PG2/FSMC_A12
27	PC1/ADC123_IN11	88	PG3/FSMC_A13
28	PC2/ADC123_IN12		
29	PC3/ADC123_IN13		
44	PC4/ADC12_IN14		
45	PC5/ADC12_IN15		
96	PC14/ADC12_CH2/TIM9_CH2		

[illegible][illegible]

The diagram illustrates a PCB layout for a vegetable growth greenhouse. The central component is the STM32F103ZET6 microcontroller. It is connected to various sensors: two light sensors (光敏传感器), two rain sensors (雨滴传感器), and one soil moisture sensor (土壤湿度传感器). The microcontroller also interfaces with an LCD and a TFT\_LCD. Power management includes a 3V30 regulator and various decoupling capacitors. The layout shows the placement of components, signal traces, and ground connections. A title block at the bottom right provides project details.

Title		
Size	Number	Revision
A3		
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