COVER

Revision	Description	Date	Drawn	Checked
V10A	Initial	2017-05-13	xxxlzjxxx	

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04 DISPLAY&KEY
05 MOTOR
06 POWER

BUG

Schematics Block:

NO.2, XinYe Road, GaoXinXiQu, Chengdu, Sichuan,China.

SICHUAN HUIYUAN OPTICAL COMMUNICATIONS CO.,LTD

Title: MK60_DRIVE_V10A

Size: A3 | Document: 01 COVER | Rev: V10A

Date: Thursday, May 18, 2017 | Sheet 1 of 6

Designed by: xxxlzjxxx | Checked by: ? | Approved by: ?

GPIO ASSIGNMENT

PIN1~PIN25

NUMBER	PIN	Define	Function
1	PTE0		
2	PTE1		
3	PTE2		
4	PTE3		
5	PTE4	**UART3-TX**	UART3
6	PTE5	**UART3-RX**	
7	PTE6		
8	VDD		
9	VSS		
10	USB0_DP		
11	USB0_DM		
12	VOUT33		
13	VREGIN		
14	ADC0_DP1		
15	ADC0_DM1		
16	ADC1_DP1	**WORK_VOLT**	电压检测
17	ADC1_DM1		
18	PGA0_DP	**SENSE1**	电压检测
19	PGA0_DM	**SENSE2**	
20	PGA1_DP		
21	PGA1_DM		
22	VDDA		
23	VREFH	**VREFH**	参考源
24	VREFL	**VREFL**	
25	VSSA		

PIN26~PIN50

NUMBER	PIN	Define	Function
26	VREF_OUT		
27	DAC0_OUT	**REF**	参考电压
28	XTAL32		
29	EXTAL32		
30	VBAT		
31	PTE24	**DS18B20**	DS18B20
32	PTE25		
33	PTE26		
34	PTA0	**JTAG_TCLK**	JTAG
35	PTA1	**JTAG_TDI**	
36	PTA2	**JTAG_TDO**	
37	PTA3	**JTAG_TMS**	
38	PTA4	**WDI_INPUT_A**	看门狗
39	PTA5		
40	VDD		
41	VSS		
42	PTA12	**RESET**	步进电机
43	PTA13	**SLEEP**	
44	PTA14	**STEP**	
45	PTA15	**DIR**	
46	PTA16	**EN**	
47	PTA17		
48	VDD		
49	VSS		
50	PTA18	**CLK_25M**	时钟

PIN51~PIN75

NUMBER	PIN	Define	Function
51	PTA19		
52	RESET_b	**SYS_RESET#**	系统复位
53	PTB0	**RMII0_MDIO**	RMII
54	PTB1	**RMII0_MDC**	
55	PTB2	**IIC0_SCL**	IIC0
56	PTB3	**IIC0_SDA**	
57	PTB9	**IIC0_PORT**	
58	PTB10	**W25B_CS#**	FLASH
59	PTB11	**W25B_CLK**	
60	VSS		
61	VDD		
62	PTB16	**W25B_DO**	FLASH
63	PTB17	**W25B_DI**	
64	PTB18	**W25B_HOLD#**	
65	PTB19	**W25B_WP#**	
66	PTB20		
67	PTB21		
68	PTB22		
69	PTB23		
70	PTC0	**OUT0**	霍尔开关
71	PTC1	**OUT1**	
72	PTC2	**OUT2**	
73	PTC3	**OUT3**	
74	VDD		
75	VSSA		

PIN76~PIN100

NUMBER	PIN	Define	Function
76	PTC4	**OUT4**	霍尔开关
77	PTC5	**OUT5**	
78	PTC6		
79	PTC7		
80	PTC8		
81	PTC9		
82	PTC10		
83	PTC11		
84	PTC12		
85	PTC13		
86	PTC14	**SCL**	OLED
87	PTC15	**SDA**	
88	VSS		
89	VDD		
90	PTC16	**BEEP**	蜂鸣器
91	PTC17	**LED1**	LED
92	PTC18	**LED0**	
93	PTD0	**KEY0**	按键
94	PTD1	**KEY1**	
95	PTD2	**KEY2**	
96	PTD3	**KEY3**	
97	PTD4	**KEY4**	
98	PTD5	**KEY5**	
99	PTD6		
100	PTD7		

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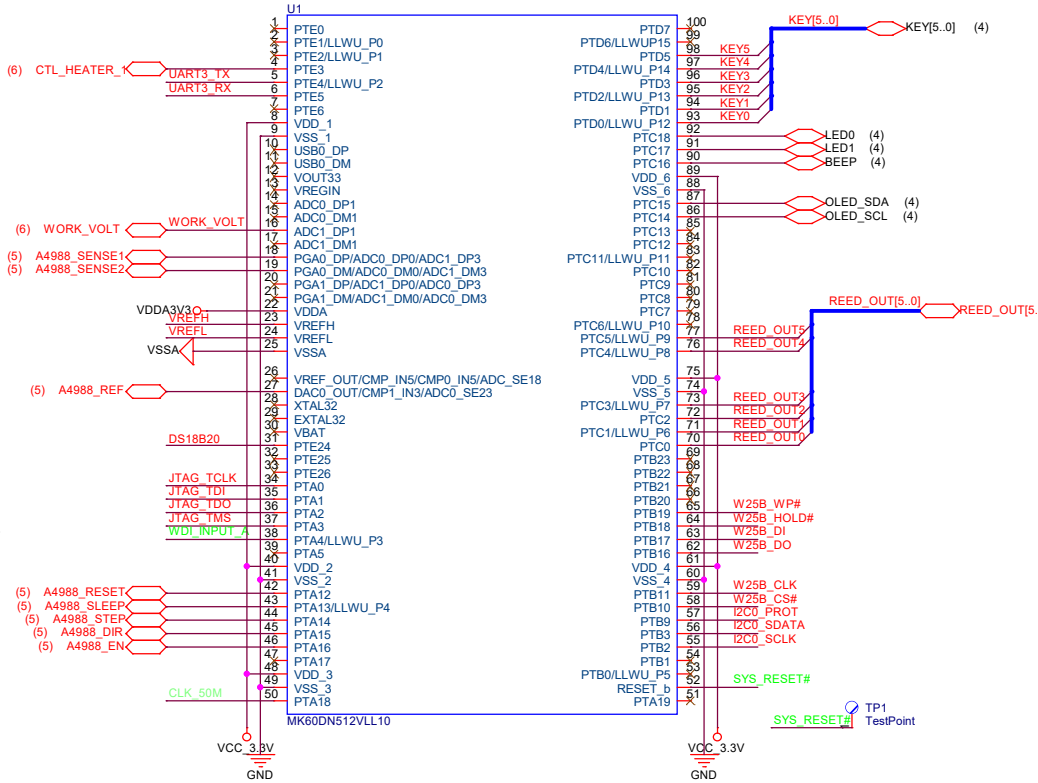
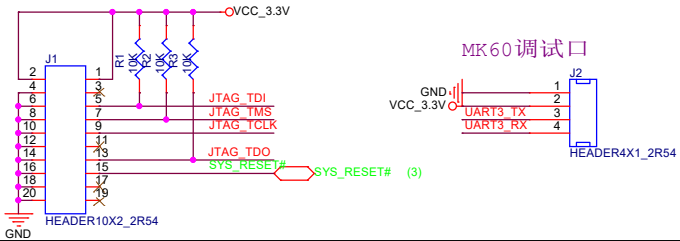
Title	MK60_DRIVE_V10A		
Size A3	Document 02 GPIO ASSIGNMENT		Rev V10A
Date Thursday, May 18, 2017	Sheet 2 of 6		
Designed by xxxlzjxxx	Checked by ?	Approved by ?	

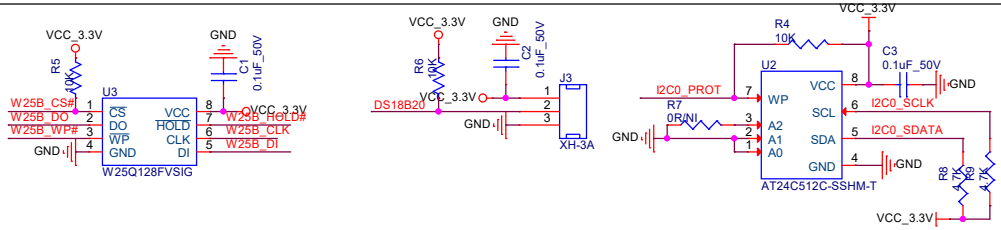
MK60DN512VLL10



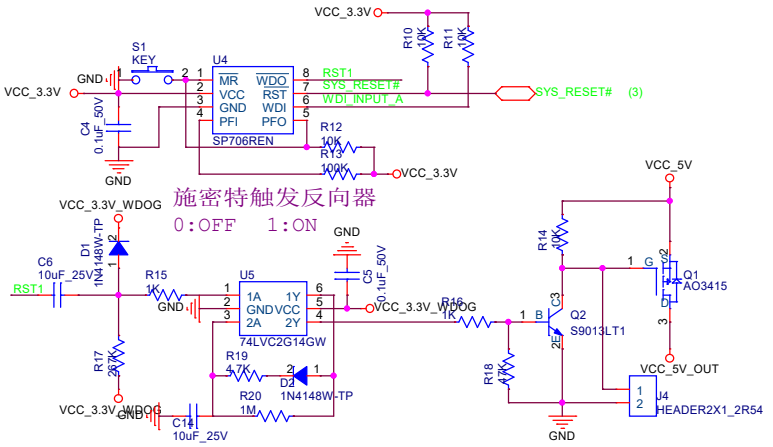
JTAG、串口调试口、主机通信口



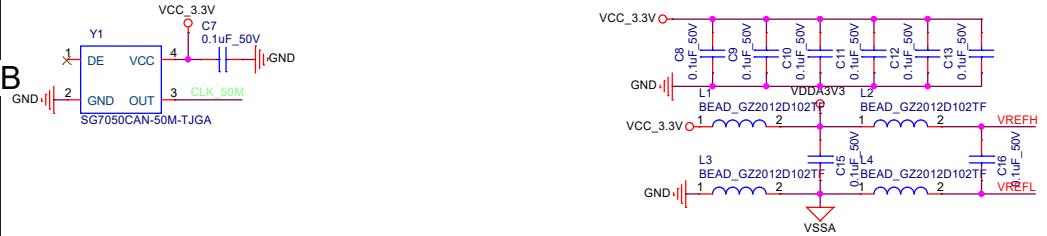
SPI FLASH、温度传感器、EEPROM



看门狗电路



时钟电路



SICHUAN HUIYUAN OPTICAL COMMUNICATIONS CO.,LTD			
Title: MK60_DRIVE_V10A			
Size: A3	Document: 03 MCU		Rev: V10A
Date: Thursday, May 18, 2017		Sheet: 3 of 6	
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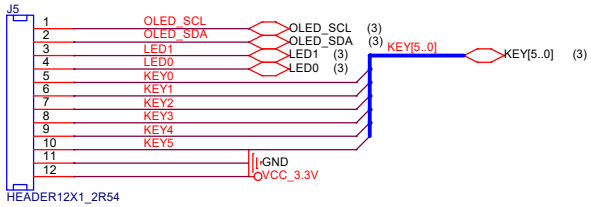
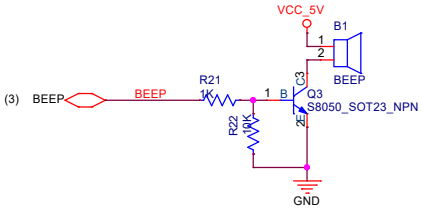
按键、显示接口



蜂鸣器



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Title	MK60_DRIVE_V10A
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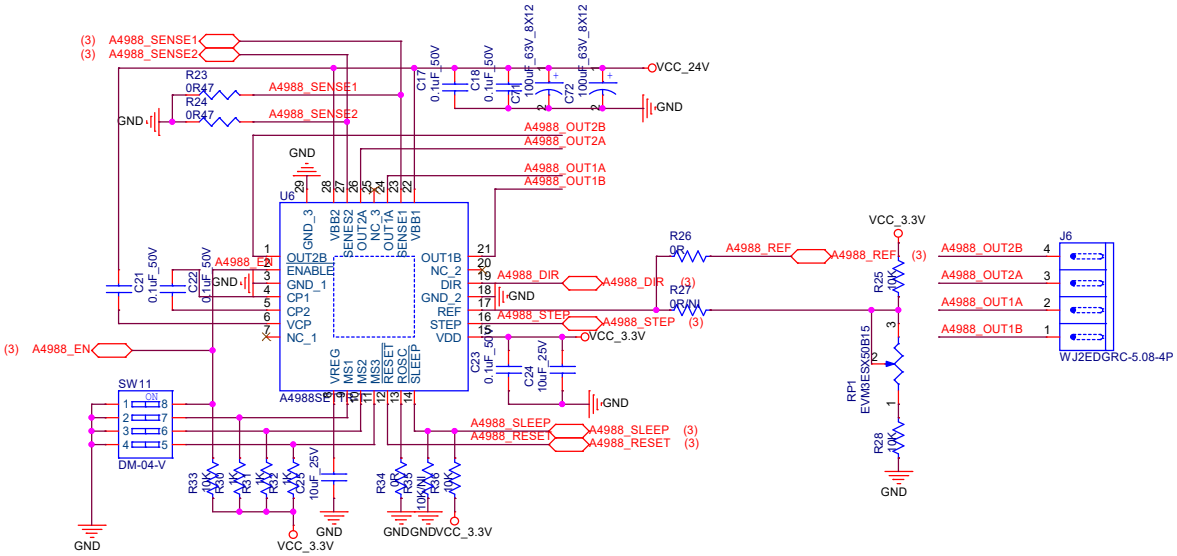
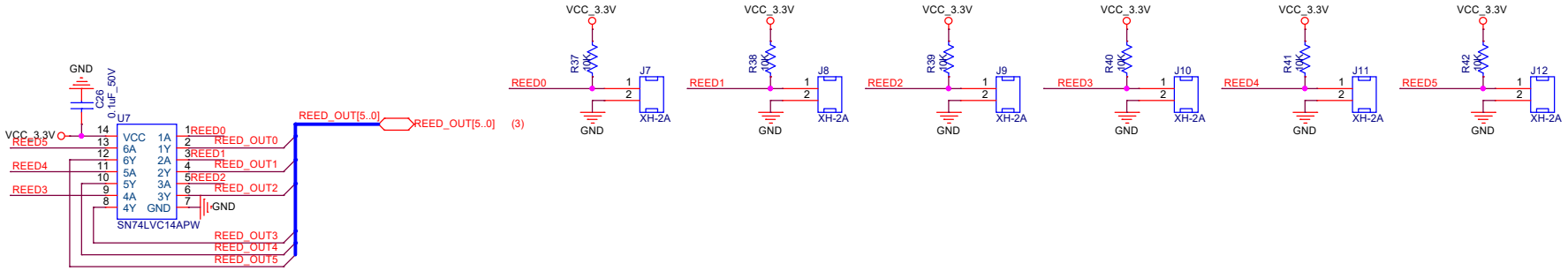
电机驱动电路



干簧管



SICHUAN HUIYUAN OPTICAL COMMUNICATIONS CO.,LTD			
Title: MK60_DRIVE_V10A			
Size: A3	Document: 05 MOTOR		Rev: V10A
Date: Thursday, May 18, 2017		Sheet: 5 of 6	
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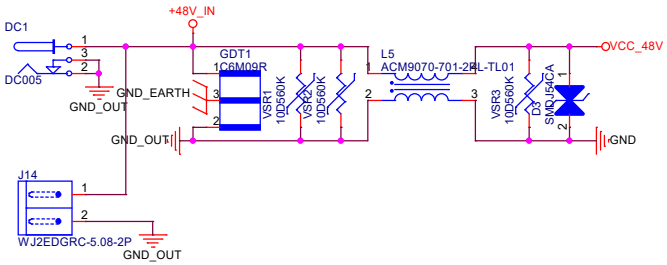
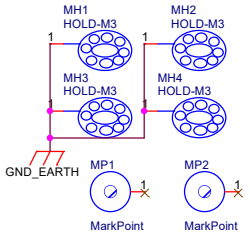
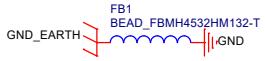
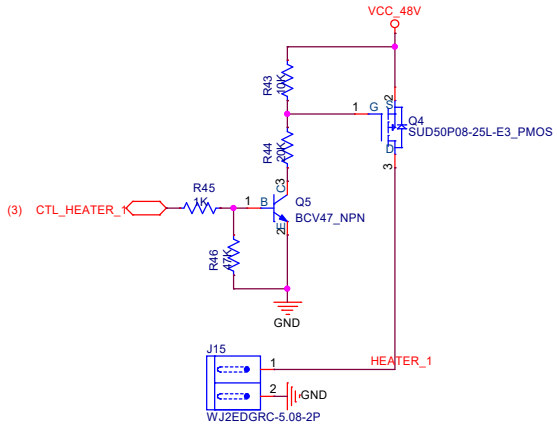
电源输入



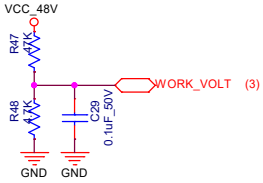


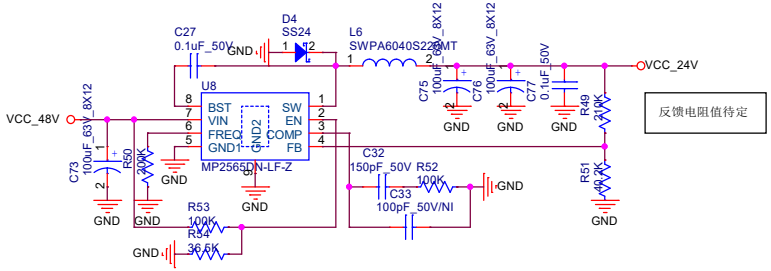


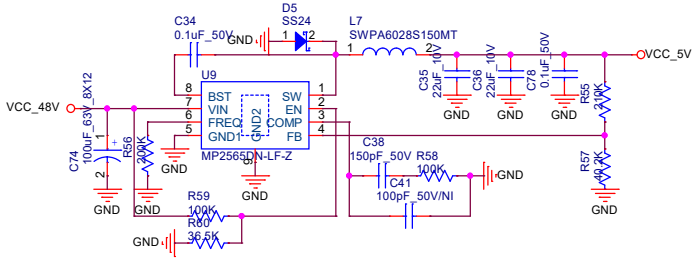
加热电阻



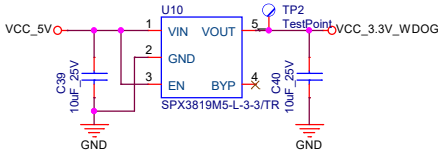
相机电源

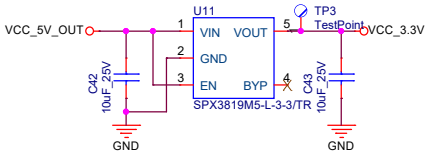


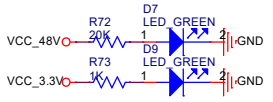




看门狗电源







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	Title: MK60_DRIVE_V10A		
	Size: A3	Document: 06 POWER	Rev: V10A
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	Designed by: xxxlzjxxx	Checked by: ?	Approved by: ?