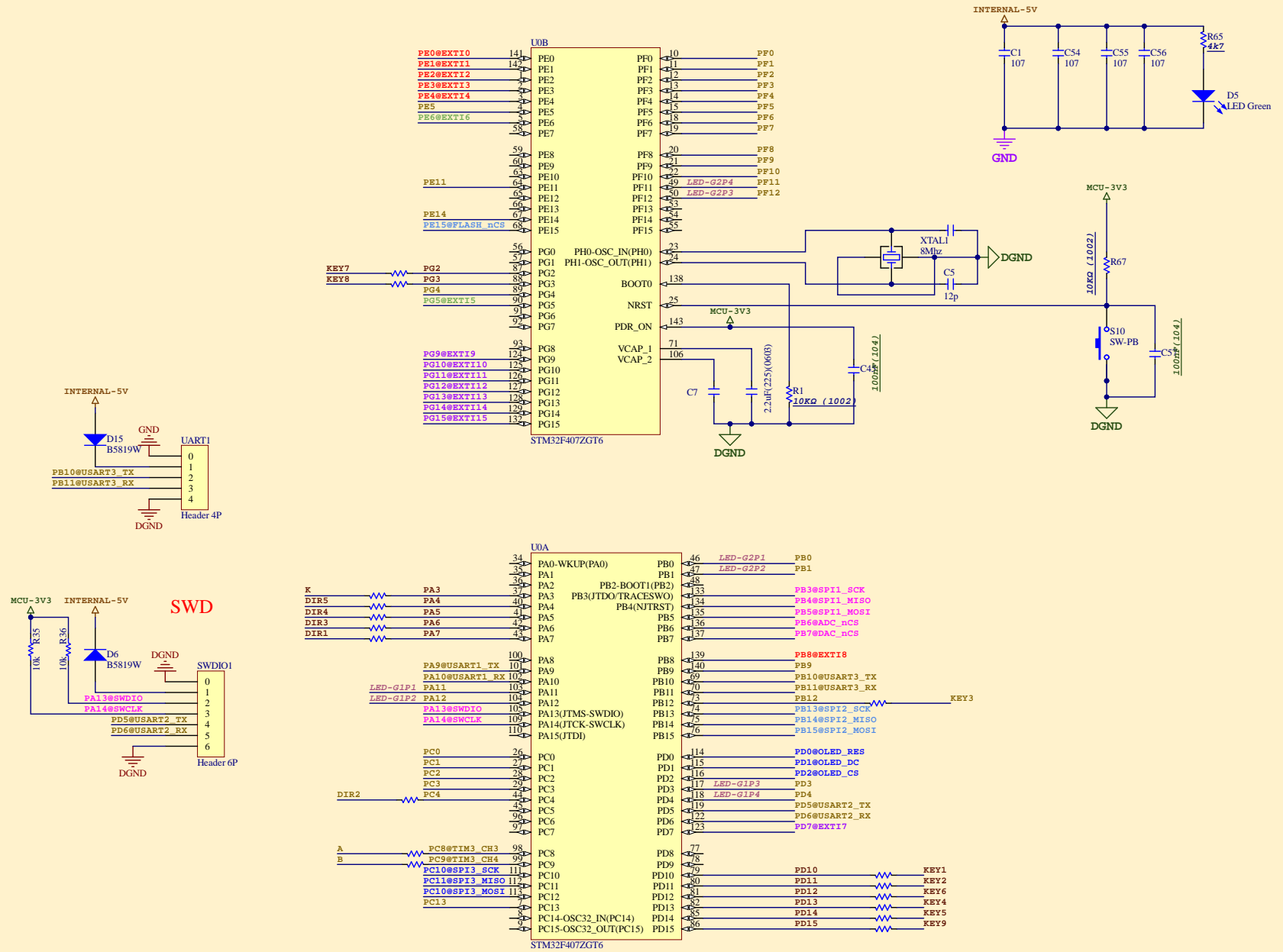
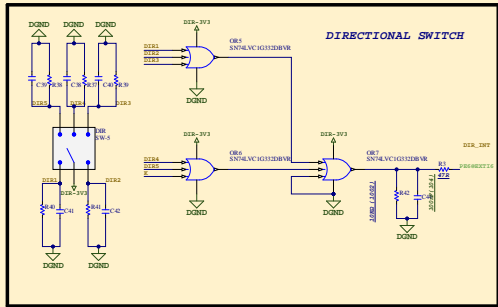
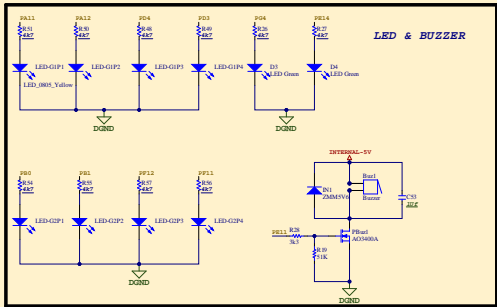
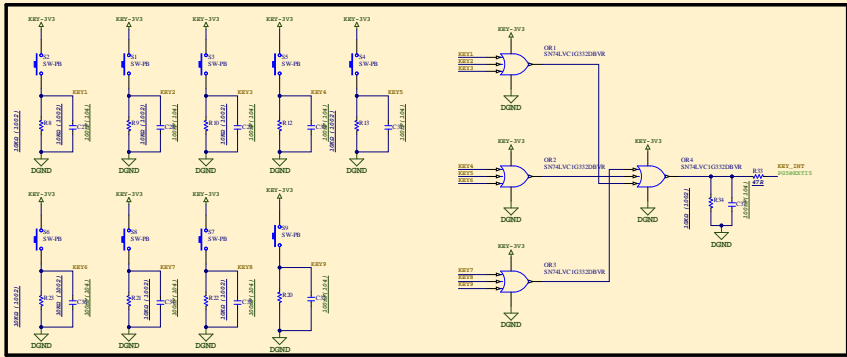
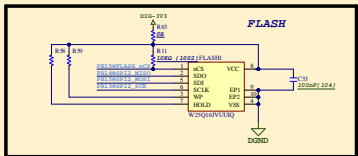
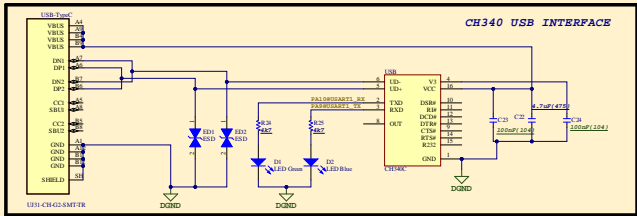
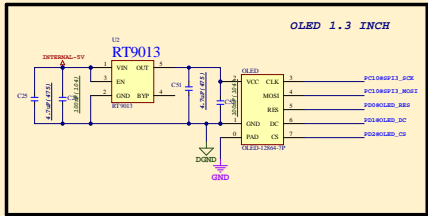
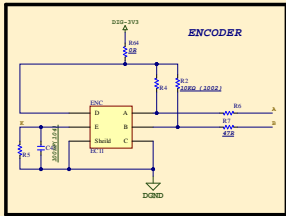


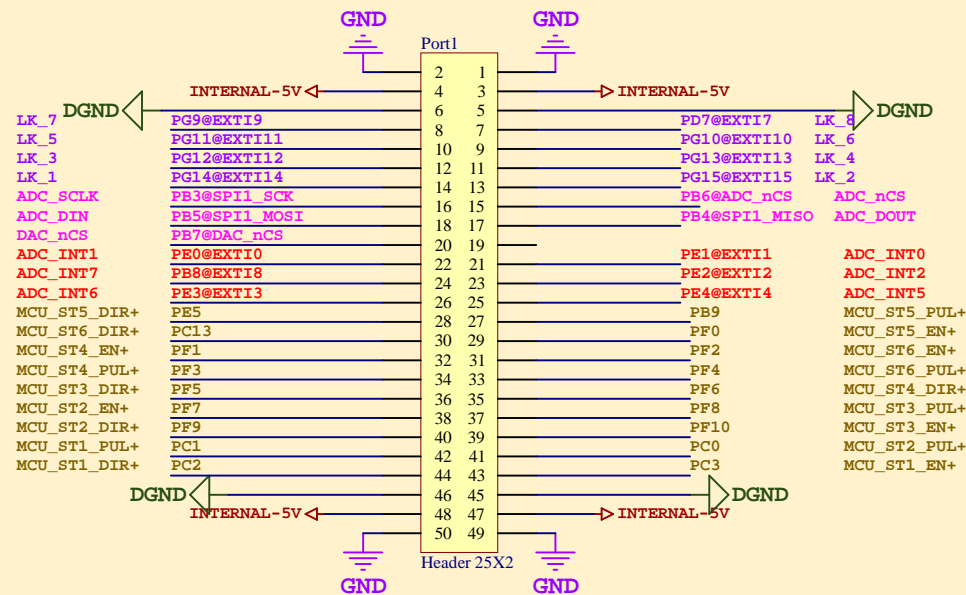
EXTI INTERFACE	
PE0@EXTI0	ADC_INT1
PE1@EXTI1	ADC_INT0
PE2@EXTI2	ADC_INT2
PE3@EXTI3	ADC_INT6
PE4@EXTI4	ADC_INT5
PG5@EXTI5	KEY_INT
PE6@EXTI6	DIR_INT
PD7@EXTI7	LK_8
PB8@EXTI8	ADC_INT7
PG9@EXTI9	LK_7
PG10@EXTI10	LK_6
PG11@EXTI11	LK_5
PG12@EXTI12	LK_3
PG13@EXTI13	LK_4
PG14@EXTI14	LK_1
PG15@EXTI15	LK_2

LED CONTROL	

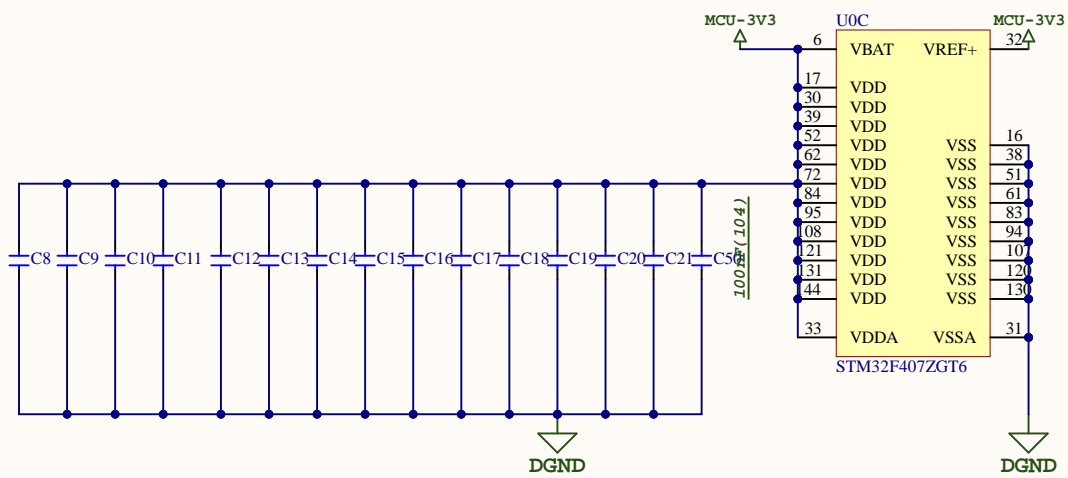
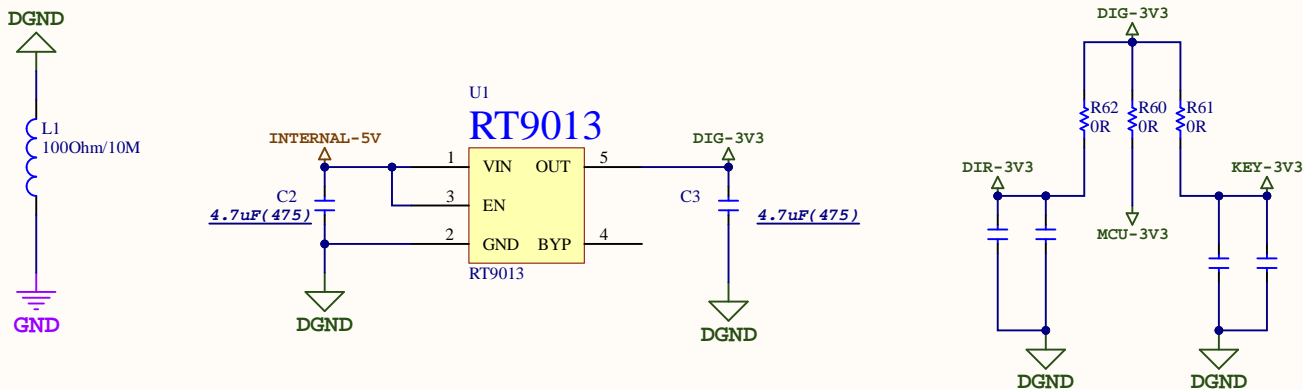
Title		
Size	Number	Revision
A4		
Date:	4/04/2021	Sheet of
File:	G:\Data\...\00 GPIO ASSIGNMENT.SchDoc	Drawn By:



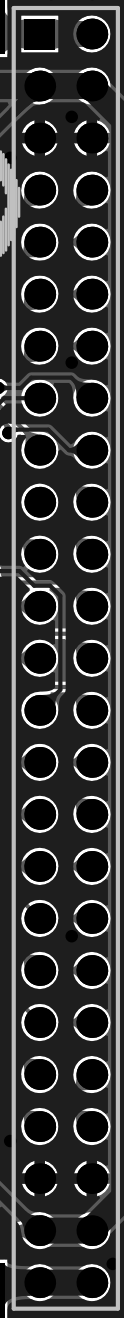




Title			
Size	Number		Revision
A4			
Date:	4/04/2021		Sheet of
File:	G:\Data\...\03 CONNECTOR.SchDoc		Drawn By:



Title		
Size A4	Number	Revision
Date:	4/04/2021	Sheet of
File:	G:\Data\...\04 POWER SUPPLY.SchDoc	Drawn By:



MP-L

多雅光子学实验室
Multi-Dimensional Photonics Lab

VIN
DIO
CLK
TX
RX
GND

LED-G1

P1
P2
P3
P4

LED-G2

P1
P2
P3
P4

S1
S2
S3
S4
S5
S6
S7
S8
S9

Comment	Description	Designator	Footprint	LibRef	Quantity
Buzzer	Magnetic Transducer Buzzer	Buz1	MLT-5020	Buzzer	1
107		C1, C54, C55, C56	1210C	Capacitor	4
4.7uF(475)		C2, C3, C22, C25, C46, C48, C51	0402_C	Capacitor	7
12p		C4, C5	0402_C	Capacitor	2
2.2uF(225)(0603)		C6, C7	0603_C	Capacitor	2
4.7uF		C8	0402_C	Capacitor	1
100nF(104)		C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C23, C24, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C47, C49, C50, C52, C57	0402_C	Capacitor	40
1uF		C53	0402_C	Capacitor	1
LED Green	Typical INFRARED GaAs LED	D1, D3, D4, D5	LED-0603-Green	LED0	4
LED Blue	Typical INFRARED GaAs LED	D2	LED-0603-Green	LED0	1
B5819W	Default Diode	D6, D15	SOD-123	Diode	2
SW-5		DIR	KEY-DIR	SW-5	1
ESD		ED1, ED2	SOD-323	ESD	2
EC11		ENC	EC1x-Encoder	encoder	1
W25Q16JVUIQ		FLASH1	USON-8-4*3	W25Q16JVUIQ	1
ZMM5V6	Default Diode	IN1	SOD-80	Diode	1
	Inductor	L1	1206R	Inductor	1
LED_0805_Yellow	Typical INFRARED GaAs LED	LED-G1P1, LED-G1P2, LED-G1P3, LED-G1P4, LED-G2P3	LED-0805-Yellow	LED0	5
LED_0805_Blue	Typical INFRARED GaAs LED	LED-G2P1	LED-0805-Blue	LED0	1
LED_0805_Green	Typical INFRARED GaAs LED	LED-G2P2	LED-0805-Green	LED0	1
LED_0805_RED	Typical INFRARED GaAs LED	LED-G2P4	LED-0805-Red	LED0	1
OLED-12864-7P		OLED	OLED-12864-7P	OLED-12864-7P	1
SN74LVC1G332DBVR	3-1 OR GATE	OR1, OR2, OR3, OR4, OR5, OR6, OR7	SOT-23-6	SN74LVC1G332DBVR	7
AO3400A		PBuz1	SOT-23	MOS-N	1
Header 25X2	Header, 25-Pin, Dual row	Port1	Header-2*25-W	Header 25X2	1
10KQ (1002)		R1, R2, R4, R5, R8, R9, R10, R11, R12, R13, R20, R21, R22, R23, R34, R37, R38, R39, R40, R41, R42, R58, R59, R67	0402_R	Resistor	24
47R		R3, R6, R7, R14, R15, R16, R17, R18, R29, R30, R31, R32, R33, R43, R44, R45, R46, R47, R52, R53, R66	0402_R	Resistor	21
51K	Resistor	R19	0402_R	Res1	1
4k7		R24, R25, R26, R27, R48, R49, R50, R51, R54, R55, R56, R57, R65	0402_R	Resistor	13
3k3	Resistor	R28	0402_R	Res1	1
10k	Resistor	R35, R36	0402R - New	Res1	2
0R	Resistor	R60, R61, R62	0603_R	Res1	3
0R		R63, R64	0402_R	Resistor	2
SW-PB	Switch	S1, S2, S3, S4, S5, S6, S7, S8, S9	Key-6*6 - T	SW-PB	9
SW-PB	Switch	S10	Key-3*4	SW-PB	1
Header 6P		SWDIO1	GH1.25-6P	Header 6P	1
STM32F407ZGT6	ARM Cortex-M4 32-bit MCU+FPU, 210 DMIPS, 1024 kB Flash, 192 kB Internal RAM, 114 I/Os, 144-pin LQFP, -40 to 85 degC, Tray	U0	STM-LOFP144_N	STM32F407ZGT6	1
RT9013		U1, U2	SOT-23-5	RT9013	2
Header 4P		UART1	GH1.25-4P	Header 4P	1
CH340C	USB to TTL	USB	SOP-16	CH340C	1
UJ31-CH-G2-SMT-TR	USB	USB-TypeC	USB-3.1 - 16P	USB3.0-16P	1
8Mhz	Crystal Oscillator	XTAL1	Cry-3225	XTAL	1