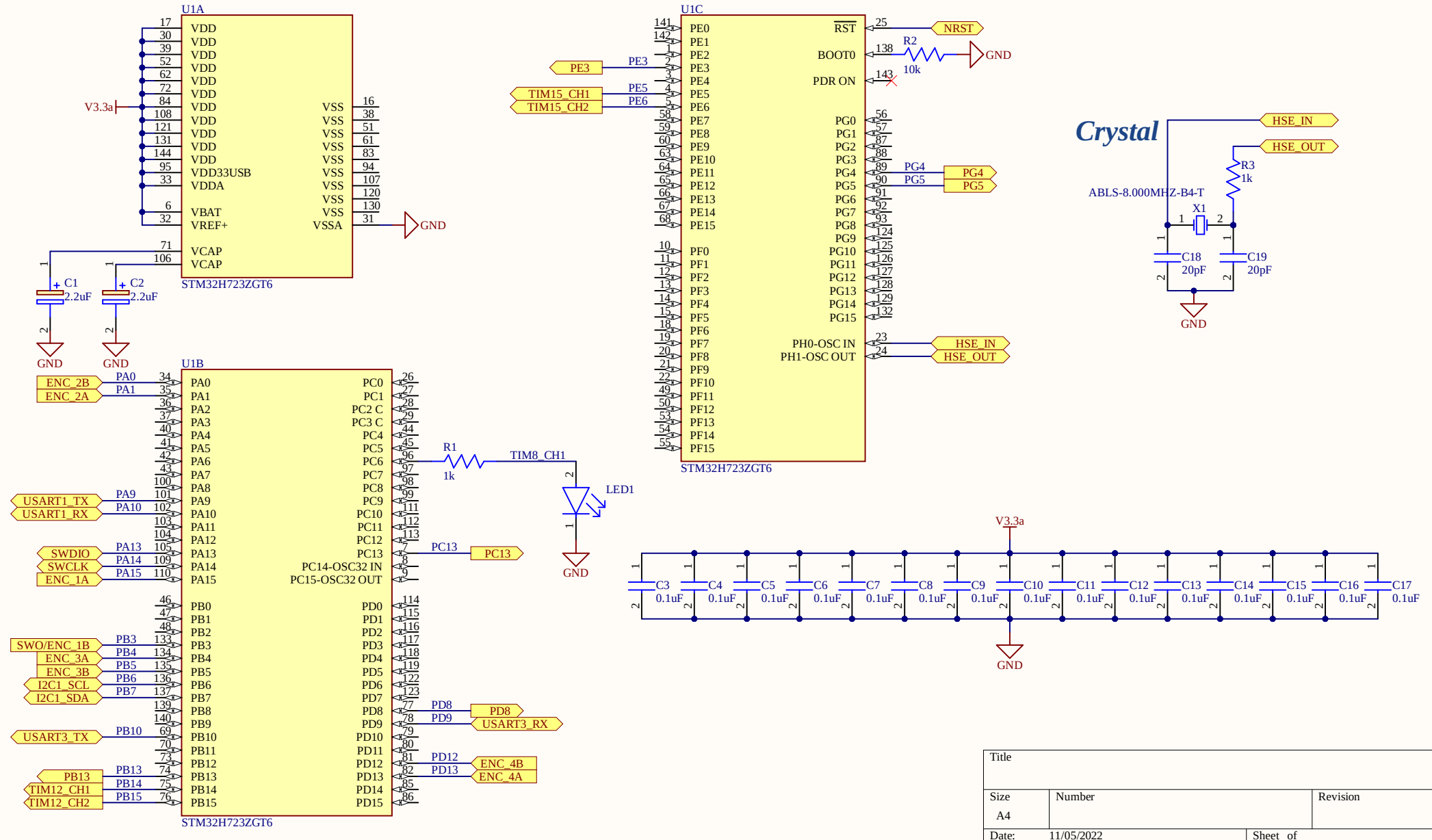
STM32



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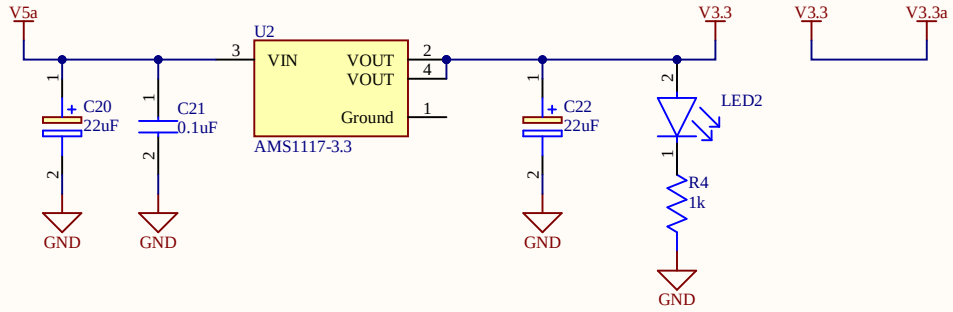
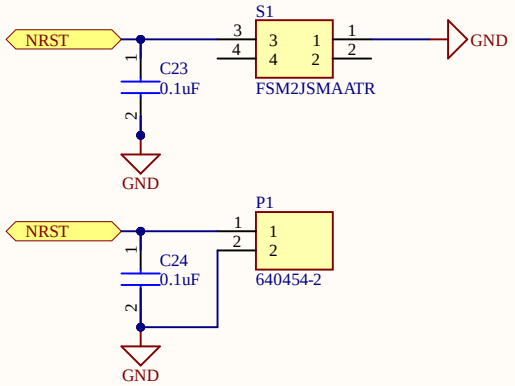
File: C:\Users\..\MCU_board_1.SchDoc		Drawn By:

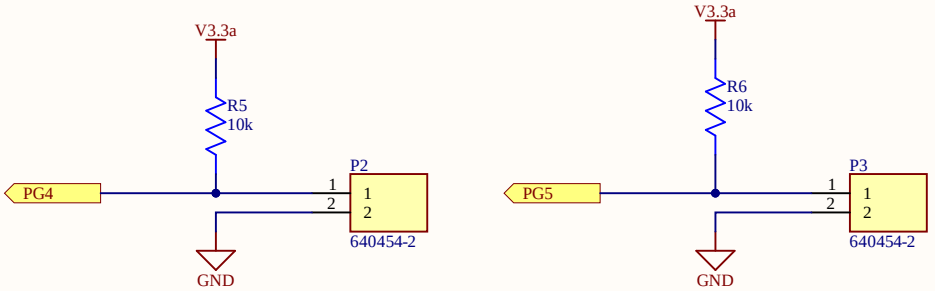
MCU POWER



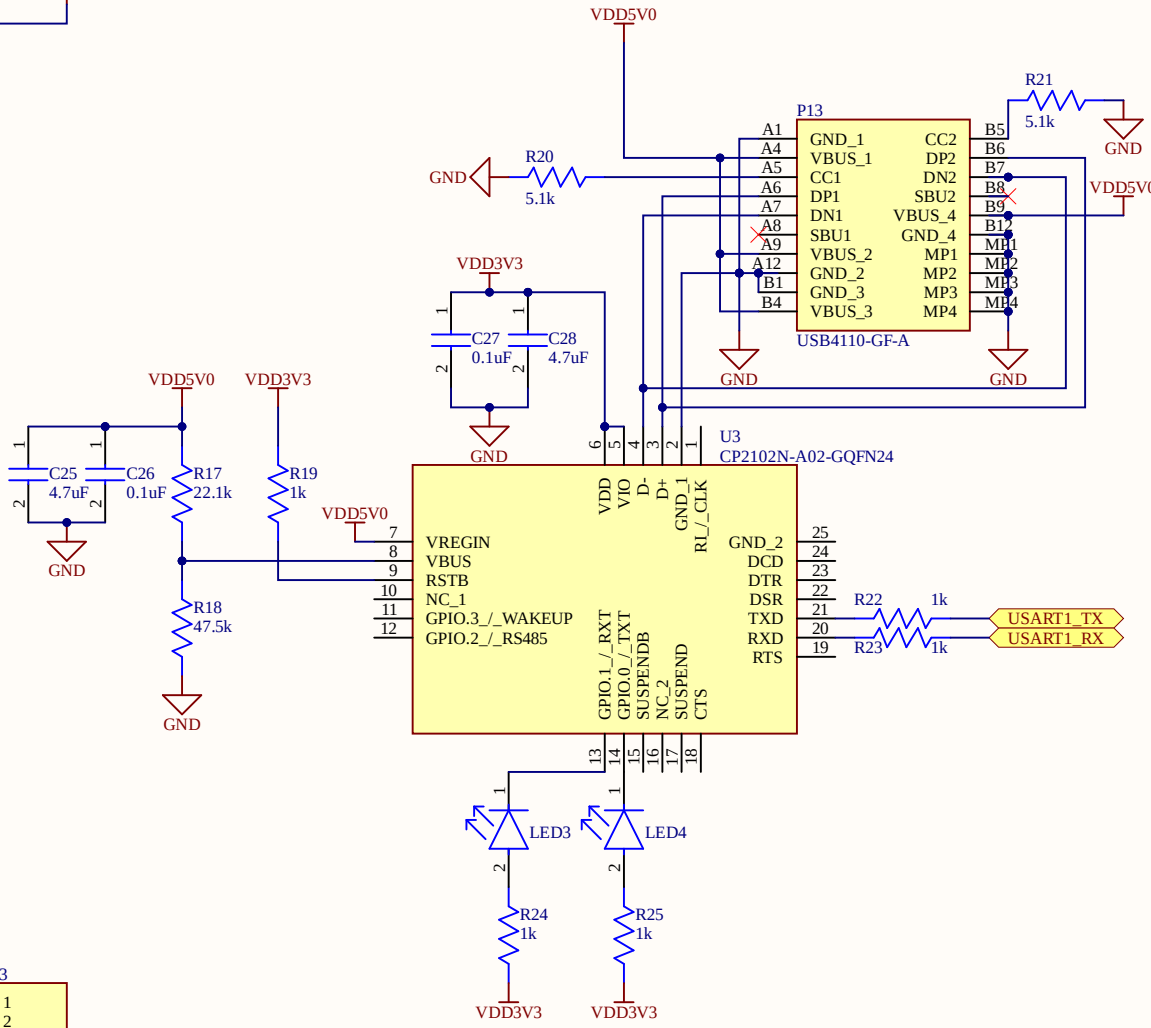
NRST



SWITCH



USB to TTL Adapter



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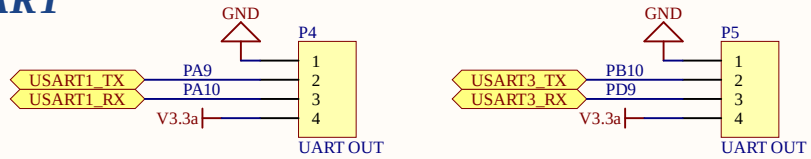
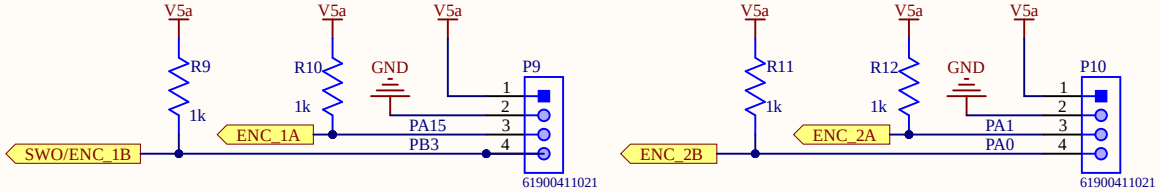
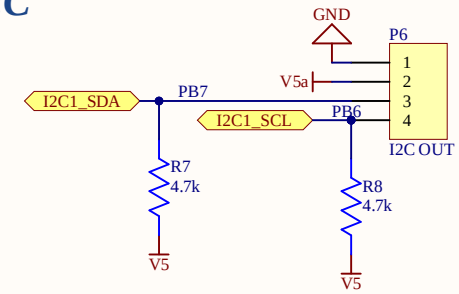
UART

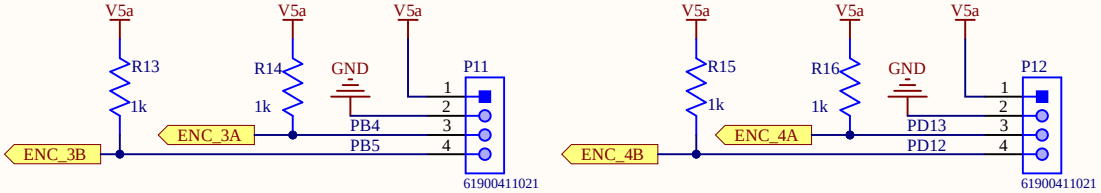


ENCODER

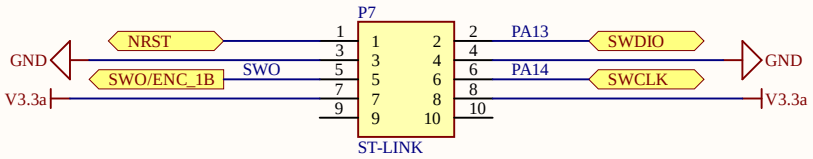


I2C

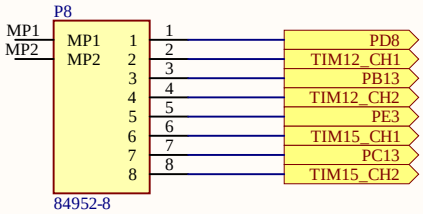




ST-link



FFC Connector



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Comment	Description	Designator	Footprint	LibRef	Quantity
2.2uF	Capacitor Polarised	C1, C2	T598B	T598B225M035ATE150	2
0.1uF	Capacitor	C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C26, C27	CAPC1608X90N	GRM188R72A104MA35D	17
20pF	Capacitor	C18, C19	CAPC1608X90N	06035A200FAT2A	2
22uF	Capacitor Polarised	C20, C22	CAPPM6032X280N	TAJC226K025RNJ	2
0.1uF	Capacitor	C21, C23, C24	C1608_Commercial	C1608X7R1H334K080AC	3
4.7uF	Capacitor	C25, C28	CAPC1608X90N	GRM188R72A104MA35D	2
150060RS75000	LED RED CLEAR 0603 SMD	LED1, LED2, LED3, LED4	FP-150060RS75000-MFG	CMP-1426-00001-2	4
640454-2	Connector	P1, P2, P3	HDRV2W66P0X254_1X2_762X572X1003P	640454-2	3
UART OUT	Header, 4-Pin	P4, P5	HDR1X4	Header 4	2
I2C OUT	Header, 4-Pin	P6	HDR1X4	Header 4	1
ST-LINK	Connector	P7	SHDR10W66P254_2X5_2035X880X920P	1-1634688-0	1
84952-8	Connector	P8	849528	84952-8	1
61900411021	Male Bottom Locking Header WR-WTB, THT, Right Angled, pitch 2.54 mm, 1 x 4 position	P9, P10, P11, P12	61900411021	CMP-1502-00594-1	4
USB4110-GF-A	Connector	P13	USB4110GFA	USB4110-GF-A	1
1k	Resistor	R1, R3, R4, R9, R10, R11, R12, R13, R14, R15, R16, R19, R22, R23, R24, R25	RESC1608X55N	CMP0603-FX-1003ELF	16
10k	Resistor	R2, R5, R6	RESC1608X55N	CMP0603-FX-1003ELF	3
4.7k	Resistor	R7, R8	RESC1608X55N	CMP0603-FX-1003ELF	2
22.1k	Resistor	R17	RESC1608X55N	CMP0603-FX-1003ELF	1
47.5k	Resistor	R18	RESC1608X55N	CMP0603-FX-1003ELF	1
5.1k	Resistor	R20, R21	RESC1608X55N	CMP0603-FX-1003ELF	2
FSM2JSMAATR	Switch	S1	FSM2J_1	FSM2JSMAATR	1
STM32H723ZGT6	IC MCU 32BIT 1MB FLASH 144LQFP	U1	FP-LQFP144-1A-IPC_A	CMP-12105-000148-1	1
AMS1117-3.3	LDO Voltage Regulators 1A, 3.3V	U2	FP-AMS1117-IPC_C	CMP-209535-000001-1	1
CP2102N-A02-GQFN24	Integrated Circuit	U3	QFN50P400X400X80-25N-D	CP2102N-A02-GQFN24	1
ABLS-8.000MHZ-B4-T	Low Profile Crystal, 8.0 MHz, +/- 30 ppm, -20 to 70 degC, 2-Pin SMD, RoHS, Tape and Reel	X1	ABRA-ABLS-14.7456MHZ-B2-T_V	CMP-2000-05726-1	1