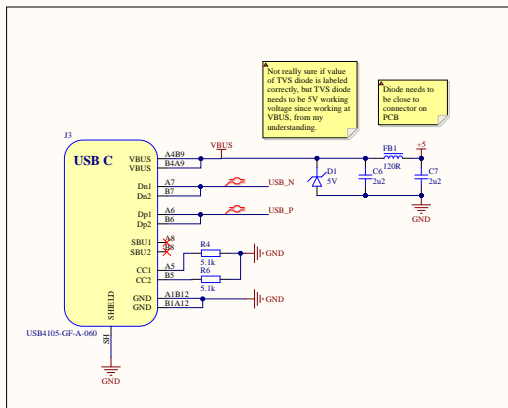
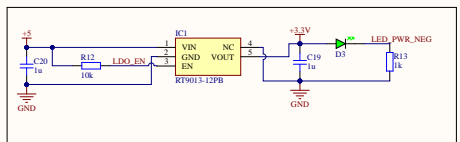


MPU-6050

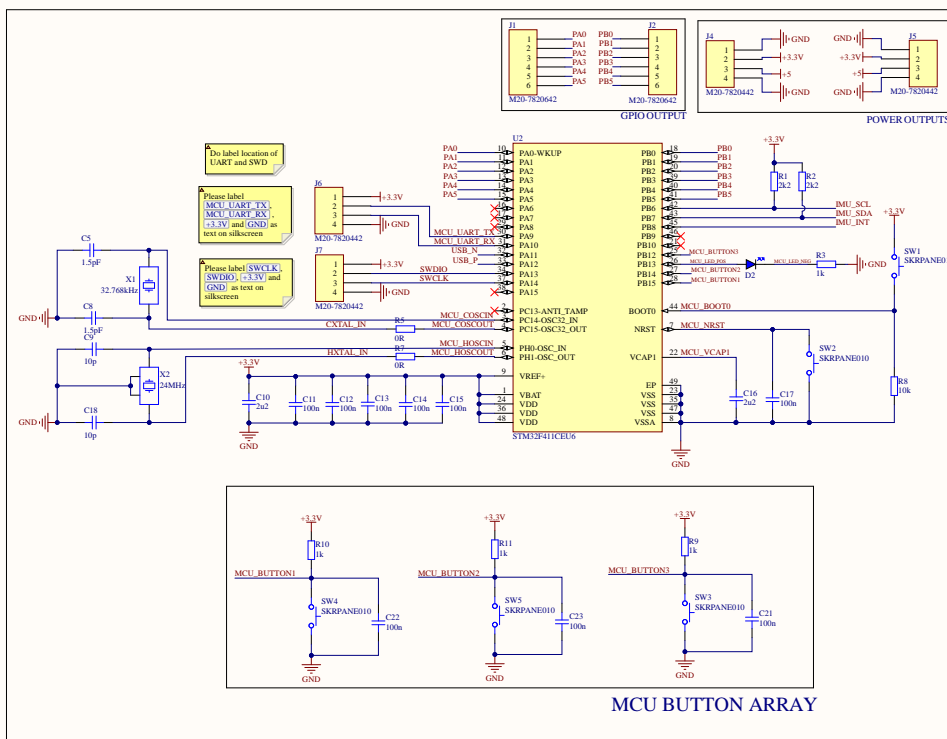


USB C PORT (WITH DATA IN)



LDO 5V IN → 3.3V OUT

## POWER



## MAIN STM32 MCU

Title		
Size	Number	Revision
A2		
Date:	1-11-2025	
File:	C:\Users\j_chen\OneDrive\Documents\STM32 Board\3-Board Rev.	

Comment	Description	Designator	Footprint	LibRef	Quantity
100n	Capacitor SMD 0402	C1, C4, C11, C12, C13, C14, C15, C17, C21, C22, C23	CAP_0402	CAP_0402	11
10n	Capacitor SMD 0402	C2	CAP_0402	CAP_0402	1
2n2	Capacitor SMD 0603	C3	CAP_0603	CAP_0603	1
1.5pF	Capacitor SMD 0402	C5, C8	CAP_0402	CAP_0402	2
2u2	Capacitor SMD 0603	C6, C7, C10, C16	CAP_0603	CAP_0603	4
10p	Capacitor SMD 0402	C9, C18	CAP_0402	CAP_0402	2
1u	Capacitor SMD 0402	C19, C20	CAP_0402	CAP_0402	2
5V	Diode TVS / ESD 0402	D1	D_0402	D_TVS_0402	1
BLUE	LED 0402 BLUE SMD	D2	LED_0402_BLUE	LED_0402_BLUE	1
GREEN	LED 0402 GREEN SMD	D3	LED_0402_GREEN	LED_0402_GREEN	1
120R	Ferrite Bead SMD 0603	FB1	FB_0603	FB_0603	1
RT9013-12PB	Integrated Circuit	IC1	SOT94P279X130-5N	RT9013-12PB	1
M20-7820642	CONN RCPT 6POS 0.1 GOLD PCB	J1, J2	HARWIN M20-7820645	M20-7820642	2
USB4105-GF-A-060	USB Connector Type C SMT 12 Pin	J3	USB4105-GF-A-060	USB4105-GF-A-060	1
M20-7820442	CONN RCPT 4POS 0.1 GOLD PCB	J4, J5, J6, J7	HARWIN M20-7820445	M20-7820442	4
2k2	Resistor SMD 0402	R1, R2	RES_0402	RES_0402	2
1k	Resistor SMD 0402	R3, R9, R10, R11, R13	RES_0402	RES_0402	5
5.1k	Resistor SMD 0402	R4, R6	RES_0402	RES_0402	2
0R	Resistor SMD 0402	R5, R7	RES_0402	RES_0402	2
10k	Resistor SMD 0402	R8, R12	RES_0402	RES_0402	2
SKRPANE010	Tactile Switch SMD SPST	SW1, SW2, SW3, SW4, SW5	SKRPANE010	SKRPANE010	5
MPU-6050	3-Axis Gyroscope, Accelerometer and a Digital Motion Processor(TM) (DMP), 2.375 to 3.46 V, -40 to 85 degC, 24-Pin QFN, RoHS, Tape and Reel	U1	IS-QFN-24_V	CMP-1753-00002-2	1
STM32F411CEU6	ARM Cortex-M4 32-bit MCU+FPU, 512 KB Flash, 128 KB RAM, 36 I/Os, 48-Pin UFQFPN, -40 to 85 degC, Tray	U2	STM-UFQFPN48_L	CMP-0243-00165-1	1
32.768kHz	Crystal SMD 3215	X1	XTAL_3215-2	XTAL_3215	1
24MHz	Crystal SMD 24MHz 10PPM 7pF 3225	X2	XTAL_3225	TSX-3225_24.0000MF15X-AC	1