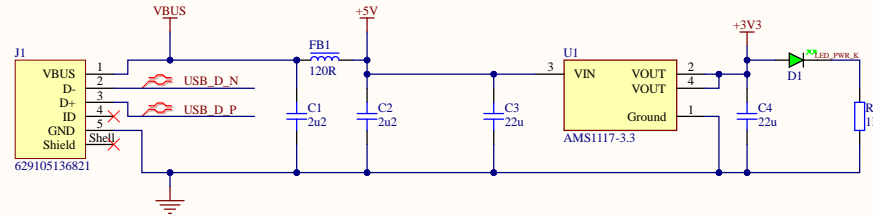
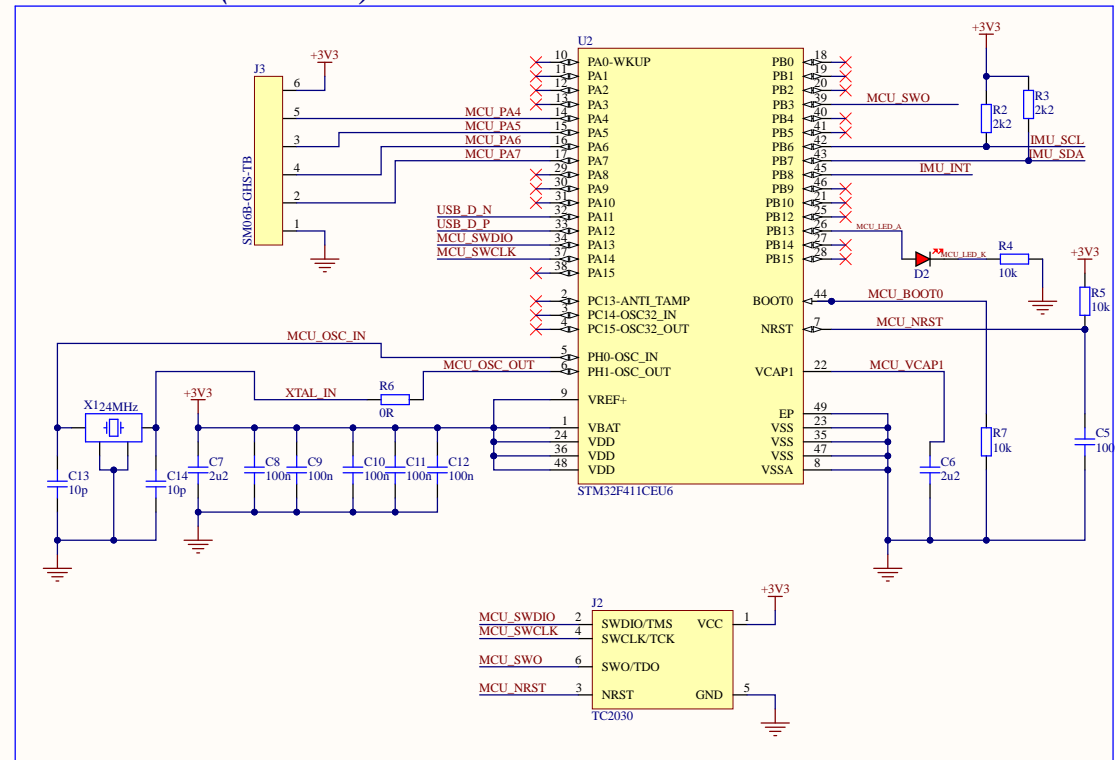


Altium STM32

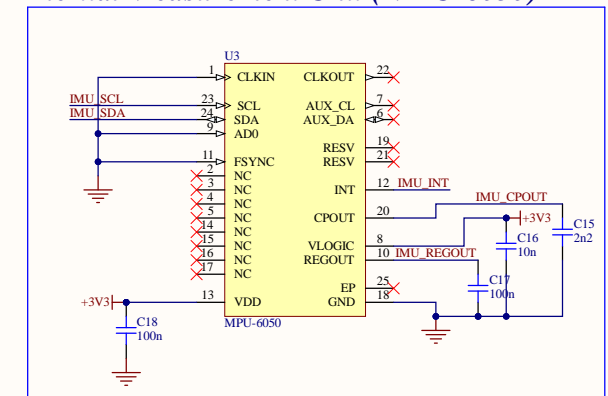
USB Connector and LDO Regulator (+5V to +3V3)



Microcontroller (STM32F4)



Inertial Measurement Unit (MPU-6050)



I2C Addr: 0x68

Title		
Altium STM32 Example Board		
Size	Number	Revision
A3		
Date:	9/17/2024	Sheet of
File:	F:\Altium Tutorial\STM32_PCB_Sch	Drawn By:

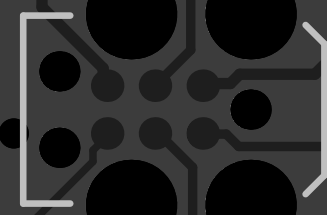


PKNW PITIGALA

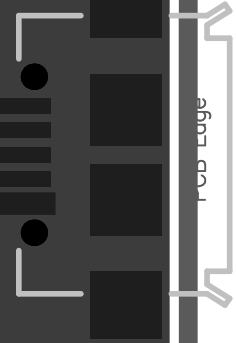


ENTC
Electronic and Telecommunication Engineering

GPIO



SWD



USB

PCB Edge



Comment	Description	Designator	Footprint	LibRef	Quantity
2u2	Capacitor SMD 0603 16V	C1, C2, C6, C7	CAP_0603	CAP_0603	4
22u	Capacitor SMD 0805 16V	C3, C4	CAP_0805	CAP_0805	2
100n	Capacitor SMD 0402 16V	C5, C8, C9, C10, C11, C12, C17, C18	CAP_0402	CAP_0402	8
10p	Capacitor SMD 0402 16V	C13, C14	CAP_0402	CAP_0402	2
2n2	Capacitor SMD 0402 16V	C15	CAP_0402	CAP_0402	1
10n	Capacitor SMD 0402 16V	C16	CAP_0402	CAP_0402	1
GREEN	LED 0402 GREEN SMD	D1	LED_0402_GREEN	LED_0402_GREEN	1
RED	LED 0402 RED SMD	D2	LED_0402_RED	LED_0402_RED	1
120R	Ferrite Bead SMD 0603	FB1	FB_0603	FB_0603	1
629105136821		J1	629105136821	CMP-1502-03253-2	1
SM06B-GHS-TB	Header Connector 6 Position 1.25MM Pitch SMD Horizontal JST GH	J3	SM06B-GHS-TB	SM06B-GHS-TB	1
1K	Resistor SMD 0402	R1	RES_0402	RES_0402	1
2k2	Resistor SMD 0402	R2, R3	RES_0402	RES_0402	2
10k	Resistor SMD 0402	R4, R5, R7	RES_0402	RES_0402	3
0R	Resistor SMD 0402	R6	RES_0402	RES_0402	1
AMS1117-3.3	LDO Voltage Regulators 1A, 3.3V	U1	FP-AMS1117-IPC_C	CMP-209535-000001- 1	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
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	U3	IS-QFN-24_V	CMP-1753-00002-2	1
24MHz	Crystal SMD 24MHz 10PPM 7pF 3225	X1	XTAL_3225	TSX- 3225_24.0000MF15X- AC	1