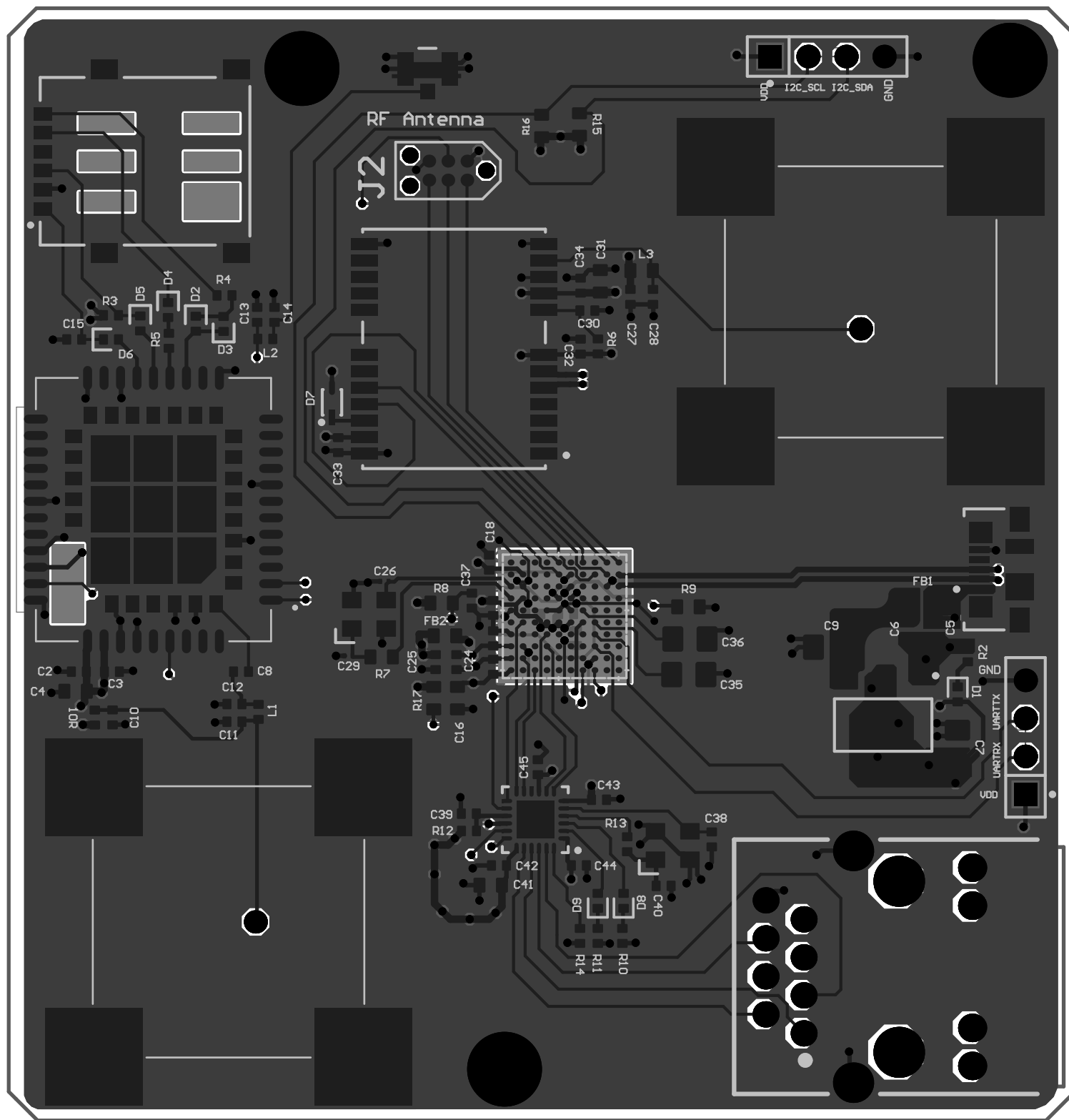


## STM43H7 Microcontroller with 25 MHz Crystal



Title		
Size A2	Number	Revision
Date: 7/04/2025	Sheet of	
File:	D:\sideproj\3Droneport with STM32 Sub\Down By:	



Comment	Description	Designator	Footprint	LibRef	Quantity
100n	Capacitor SMD 0402	C2, C3, C10, C15, C17, C18, C19, C20, C21, C22, C27, C28, C30, C32, C33, C34, C37, C38, C42, C43, C44, C45	CAP_0402	CAP_0402	22
22u	Capacitor SMD 0603	C4, C16, C31, C41	CAP_0603	CAP_0603	4
2.2u	Capacitor SMD 0603	C5, C6	CAP_0603	CAP_0603	2
22u	Capacitor SMD 0805	C7, C9, C35, C36	CAP_0805	CAP_0805	4
1n	Capacitor SMD 0402	C8	CAP_0402	CAP_0402	1
1p	Capacitor SMD 0402	C11, C12, C13, C14	CAP_0402	CAP_0402	4
10n	Capacitor SMD 0402	C23	CAP_0402	CAP_0402	1
1u	Capacitor SMD 0402	C24, C25	CAP_0402	CAP_0402	2
C0201	Capacitor SMD 0201	C26, C29	CAP_0201	CAP_0201	2
22p	Capacitor SMD 0402	C38, C40	CAP_0402	CAP_0402	2
GREEN	LED 0402 GREEN SMD	D1, D8	LED_0402_GREEN	LED_0402_GREEN	2
TVS_DATA	Diode TVS/ESD 0402	D2, D3	D_0402	D_TVS_0402	2
TVS_CLK	Diode TVS/ESD 0402	D4	D_0402	D_TVS_0402	1
TVS_RST	Diode TVS/ESD 0402	D5	D_0402	D_TVS_0402	1
TVS_VDD	Diode TVS/ESD 0402	D6	D_0402	D_TVS_0402	1
1N4148WS	DIODE GEN PURP 75V 150MA SOD323F	D7	FP-477AB-IPC_C	CMP-07163-000040-1	1
RED	LED 0402 RED SMD	D9	LED_0402_RED	LED_0402_RED	1
TH18L1		E1	XCVR_ANT-GNSSCP-TH18L1	ANT-GNSSCP-TH18L1	1
ANT-GNSSCP-TH18L1		E2	XCVR_ANT-GNSSCP-TH18L1	ANT-GNSSCP-TH18L1	1
120R	Ferrite Bead SMD 0603	FB1, FB2	FB_0603	FB_0603	2
473460001	CONN RCP TUSB2.0 MICRO B SMD R/A	J1	FP-473460001-MFG	CMP-2000-05246-2	1
U.FL-R-SMT(10)	CONN U.FL RCP T50 OHM SMD	J8	FP-U.FL-R-SMT_10-MFG	CMP-0029-00003-2	1
SIM8060-6-0-14-00-A	6 Position Card Connector NANO SIM Surface Mount, Right Angle Gold	J4	GCT_SIM8060-6-0-14-00-A	SIM8060-6-0-14-00-A	1
HR911105A	Single Port RJ45 Connector w/ Integrated Magnetic and LED 10/100 Base-T	J5	HR911105A	HR911105A	1
M20-9990445	M20-9990445 Conn Unshrouded Header HDR4 POS 2.54mm Solder ST Thru-Hole Bulk/Loose	J6, J7	FP-M20-9990445-MFG	CMP-00671-05399696-1	2
2n2	Inductor SMD 0402	L1	IND_0402	IND_0402	1
3n9	Inductor SMD 0402	L2	IND_0402	IND_0402	1
10n	Inductor SMD 0603	L3	IND_0603	IND_0603	1
10R	Resistor SMD 0402	R1	RES_0402	RES_0402	1
1k	Resistor SMD 0402	R2	RES_0402	RES_0402	1
10k	Resistor SMD 0402	R3, R6, R10, R11, R12, R13	RES_0402	RES_0402	6
33R	Resistor SMD 0402	R4, R5	RES_0402	RES_0402	2
10k	Resistor SMD 0603	R7, R8, R9	RES_0603	RES_0603	3
12k	Resistor SMD 0402	R14	RES_0402	RES_0402	1
1k5	Resistor SMD 0603	R15, R16, R17	RES_0603	RES_0603	3
AMS1117-3.3	LDO Voltage Regulators 1A, 3.3V	U1	FP-AMS1117-IPC_C	CMP-209535-000001-1	1
SIM7080G	Cellular, Navigation Galileo, GLONASS, GPS, GNSS, LTE Transceiver Module 1.559GHz ~ 1.576GHz, 1.575GHz ~ 1.576GHz, 1.574GHz ~ 1.606GHz, 1.598GHz ~ 1.563GHz Antenna Not Included Surface Mount	U2	XCVR_SIM7080G	SIM7080G	1
STM32H730VBH6	32-bit Arm®Cortex® M7 550MHz MCU, 128KB Flash, 564KB RAM, 35 comms peripherals and analog interfaces, TFBGA-100	U3	TFBGA100_8x8_STM	STM32H730VBH6	1
NEO-M8N-0	U-Blox M8 Concurrent Gns Module, 3.6V, -40 to 85 degC, 24-Pin SMD, RoHS, Tape and Reel	U4	UBX-NEO-M8-24_V	CMP-2000-07559-1	1
LAN8720A-CP	RMII 10/100 Ethernet Transceiver with HP Auto-MDIX Support, -40 to 85 degC, 24-Pin QFN, RoHS, Tray	U5	MCHP-QFN-24_V	CMP-2000-05216-1	1
24MHz	Crystal SMD 24MHz 10PPM 7pF 3225	X1	XTAL_3225	TSX-3225_24.0000MF15X-AC	1
25MHz	Crystal SMD 24MHz 10PPM 7pF 3225	X2	XTAL_3225	TSX-3225_24.0000MF15X-AC	1