

Reference(s)	Qty	Value	LibPart	Footprint	Mfr	Mfr#	Supplier	Comment		
AE1	1	Antenna_Shield	Device:Antenna_Shield	SMT_ANTENNA:ANTC5020X110N	Johanson Technology Inc.	Z450A142A100E	DigiKEY/Mouser			
C1, C6, C9, C1	7	10u	Device:C_Small	Capacitor_SMD:C_0402_1005Metric	FH(Guangdong Fenghua Advanced Tech)	0402X109K6R3NT	LCSC			
C2, C3, C4, C1	14	0.1u	Device:C_Small	Capacitor_SMD:C_0402_1005Metric	FH(Guangdong Fenghua Advanced Tech)	0402B104K500NT	LCSC			
C5	1	100u	Device:C_Small	Capacitor_SMD:C_0805_2012Metric	Murata Electronics	GRM21BR60G107ME15L	LCSC			
C7, C15, C25,	4	1u	Device:C_Small	Capacitor_SMD:C_0402_1005Metric	FH(Guangdong Fenghua Advanced Tech)	0402X109K6R3NT	LCSC			
C8	1	15p	Device:C_Small	Capacitor_SMD:C_0402_1005Metric	FH(Guangdong Fenghua Advanced Tech)	0402C0150J500NT	LCSC			
C24	1	100p	Device:C_Small	Capacitor_SMD:C_0402_1005Metric	FH(Guangdong Fenghua Advanced Tech)	0402C0101J500NT	LCSC			
C28	1	3.9P	Device:C_Small	Capacitor_SMD:C_0402_1005Metric	FH(Guangdong Fenghua Advanced Tech)	0402CG3R9C500NT	LCSC			
C29	1	2.4P	Device:C_Small	Capacitor_SMD:C_0402_1005Metric	FH(Guangdong Fenghua Advanced Tech)	0402CG2R4C500NT	LCSC			
C30, C31	2	270p	Device:C_Small	Capacitor_SMD:C_0402_1005Metric	FH(Guangdong Fenghua Advanced Tech)	0402CG271J500NT	LCSC			
C32, C33	2	22p	Device:C_Small	Capacitor_SMD:C_0402_1005Metric	FH(Guangdong Fenghua Advanced Tech)	0402CG220J500NT	LCSC			
C34	1	3.3n	Device:C_Small	Capacitor_SMD:C_0402_1005Metric	FH(Guangdong Fenghua Advanced Tech)	0402B332K500NT	LCSC			
C35	1	10n	Device:C_Small	Capacitor_SMD:C_0402_1005Metric	FH(Guangdong Fenghua Advanced Tech)	0402B103K500NT	LCSC			
Cam1	1	X05B20L24T	syp_cam_design-rescue:X05B20L24T-X05B20L24T	FPC-24_PINS:X05B20L24T	XXB Connectivity	X05B20L24T	LCSC			
D1	1	LED_Small	Device:LED_Small	LED_SMD:LED_0402_1005Metric	Everlight Elec	16-213GHIC-YR1S1/3T	LCSC			
D2	1	RED	Device:LED_Small	LED_SMD:LED_0402_1005Metric	Everlight Elec	16-213/RBC-AQ2R2B/3T	LCSC			
I1	1	USB_B_Micro	syp_cam_design-rescue:USB_B_Micro-Connector	Connector_USB:USB_Micro-B_Molex-105017-0001	Molex	1050170001	DIGIKEY			
J2	1	Conn_01x02	Connector_Generic:Conn_01x02	ZH-BAT:82B-ZRLFSN	JST Sales America	B2B-ZRL(F)SN		Battery connection - 1.5mm wide (type ZH)		
L1	1	2.7nH	Device:L_Small	Inductor_SMD:L_0402_1005Metric	Murata Electronics	PM2305PSA	LCSC			
Q1	1	PM2305PSA	Device:Q_PMO5_GSD	P-MOSFET:PM2305PSA	Pi(Pingingsen)		LCSC			
R1, R2, R6, R1	5	10k	Device:R_Small_US	Resistor_SMD:R_0402_1005Metric	FH(Guangdong Fenghua Advanced Tech)	RC-02W10JIT	LCSC			
R3, R4	2	1k	Device:R_Small_US	Resistor_SMD:R_0402_1005Metric	FH(Guangdong Fenghua Advanced Tech)	RC-02W1001FT	LCSC			
R6, R14	2	220R	Device:R_Small_US	Resistor_SMD:R_0402_1005Metric	FH(Guangdong Fenghua Advanced Tech)	RC-02W220FT	LCSC			
R7, R8, R9, R1	4	4.7k	Device:R_Small_US	Resistor_SMD:R_0402_1005Metric	FH(Guangdong Fenghua Advanced Tech)	RC-02W47JIT	LCSC			
R17	1	46.4k	Device:R_Small_US	Resistor_SMD:R_0402_1005Metric	FH(Guangdong Fenghua Advanced Tech)	RC-02W4642FT	LCSC			
R18	1	1.2k	Device:R_Small_US	Resistor_SMD:R_0402_1005Metric	FH(Guangdong Fenghua Advanced Tech)	RC-02W12JIT	LCSC			
R19	1	1.1k	Device:R_Small_US	Resistor_SMD:R_0402_1005Metric	FH(Guangdong Fenghua Advanced Tech)	RC-02W1101FT	LCSC			
R11, R20	2	20K	Device:R_Small_US	Resistor_SMD:R_0402_1005Metric	FH(Guangdong Fenghua Advanced Tech)	RC-02W20JIT	LCSC			
S1	1	AYZ0102AGRLC	syp_cam_design-rescue:AYZ0102AGRLC-Switch	AYZ0102AGRLC-SW_AYZ0102AGRLC	C&K	AYZ0102AGRLC	DIGIKEY			
SW1	1	SW_Push	Switch:SW_Push	SKRPACE010-SKRPACE010	ALPSALPINE	SKRPACE010	LCSC			
U1	1	TLV75533PDBV	syp_cam_design-rescue:TLV75533PDBV_Regulator_Linear	Package_TO_SOT_SMD:SOT-23-5	Texas Instruments	TLV75533PDBVR	LCSC			
U2	1	ESP32S	syp_cam_design-rescue:ESP32S-ESP32S	Package_DFN_QFN:QFN-48-1EP_6x6mm_P0.4mm_EP4.66x4.66mm	Espressif Systems	ESP32-DOVD06	LCSC			
U3	1	FT232RL	syp_cam_design-rescue:FT232RL-FT232RL	Barrel - Audio Connectors:FT232RL	FTDI Future Technology Devices International Ltd	FT232RL-REEL	DIGIKEY	FT232R is a USB to serial UART interface		
U4	1	XC6206P282MR-G	syp_cam_design-rescue:XC6206P282MR-G-XC6206P282MR-G	XC6206P:XC6206P282MR-G	Torex Semiconductor	XC6206P282MR-G	MOUSER			
U5	1	XC6206P122MR-G	syp_cam_design-rescue:XC6206P122MR-G-XC6206P122MR-G	XC6206P:XC6206P282MR-G	Torex Semiconductor	XC6206P122MR-G	MOUSER			
U6	1	STM18117R	syp_cam_design-rescue:STM18117R-BL_U_Integrated_Circuits	Package_TO_SOT_SMD:SOT-23	STMicroelectronics	STM18117RAXTF	DIGIKEY			
U7	1	BQ24075RGT	syp_cam_design-rescue:BQ24075RGT-Battery_Management	Package_DFN_QFN:QFN-16-1EP_3x3mm_P0.5mm_EP1.68x1.68mm_ThermalVias	Texas Instruments	BQ24075RGT	DIGIKEY			
U8	1	IP56404L-SQ-SPN	Memory_RAM:ESP-PSRAM32	Package_SO:SOIC-8_3.9x4.9mm_P1.27mm	<a href="https://www.aliexpress.com/4000218445956.html">https://www.aliexpress.com/4000218445956.html</a>					
Y1	1	Crystal_GND24	Device:Crystal_GND24	Crystal:Crystal_SMD_3225-4Pin_3.2x2.5mm	HELE(Harmony Elec)	X35040000BF1H-Z	LCSC			