

Comment	Description	Designator	Manufacturer	Manufacturer Part Number	Supplier	Supplier Part Number	Quantity
JST-PH Connector	Battery 3.7V 1100mAh JST-PH Connector	BAT1, BAT2	JST Sales America Inc.	S2B-PH-K-S	Digi-Key	455-1719-ND	2
Horizontal Switch SPST	Horizontal Switch	BTN1	QJ1 Devices	TS11-674-80-BK-160-RA-D	Digi-Key	2223-TS11-674-80-BK-160-RA-D-ND	1
4.7nF	SMD Capacitor	C1	Murata Electronics	GRM2165C1H472J A01D	Digi-Key	490-3044-1-ND	1
100nF	SMD Capacitor	C2, C3, C4, C5, C6, C7, C8, C9, C10, C13, C14, C15, C16, C17, C18, C23, C24, C26	Murata Electronics	GRM155R71C104K A8BJ	Digi-Key	490-6328-1-ND	18
10nF	SMD Capacitor	C11, C12	Murata Electronics	GRM155R71C103K A01D	Digi-Key	490-1313-1-ND	2
4.7uF	SMD Capacitor	C19	Samsung Electro-Mechanics	CL05A475MP5NFRN C	Digi-Key	1276-1482-1-ND	1
22uF	SMD Capacitor	C20, C21, C25	Samsung Electro-Mechanics	CL21A226M0CLRN C	Digi-Key	1276-6780-1-ND	3
1uF	SMD Capacitor	C22	Samsung Electro-Mechanics	CL05A105KO5NN NC	Digi-Key	1276-1067-1-ND	1
TVSDIODE	USB ESD protection, TVSDIODE	D1	Nexperia USA Inc.	PRTF5V0U2X,215	Digi-Key	1727-3884-1-ND	1
Ambient Light Sensor	SENSOR PHOTODIODE 850NM RADIAL	D2	ams-OSRAM USA INC	SFH 203 P	Digi-Key	475-SFH203P-ND	1
Poly Switch	Poly Switch	F1	Bourns Inc.	MF-NS-HT016KX-2	Digi-Key	MF-NS-HT016KX-2CT-ND	1
4 Breakout Holes	4 breakout holes in 1 line	H1	NA	NA	NA	NA	1
MPM3610	MPM3610 Step Down Regulator	IC1	Monolithic Power Systems Inc.	MPM3610AGQV-P	Digi-Key	1589-1249-1-ND	1
SMD Header (Bootloader)	PIN HEADER for bootloading	J2	NA	NA	NA	NA	1
USB-MICRO	USB - micro AB USB 2.0 Receptacle Connector 5 Position Surface Mount, Right Angle, Horizontal	J3	Hirose Electric Co Ltd	ZX62-AB-5PA(31)	Digi-Key	H125279CT-ND	1
CONN HEADER SMD R/A 8POS 1.25MM	CONN HEADER SMD R/A 8POS 1.25MM	J4	Molex	0532610871	Digi-Key	WM7626CT-ND	1
FERRITE 0603	SMD ferrite	L1	Murata Electronics	BLM18PG471SN1D	Digi-Key	490-5223-1-ND	1
Led 0603 Green	Led 0603 Green	LED1	Broadcom Limited	HSMG-C190	Digi-Key	516-1425-1-ND	1
Led 0603 Yellow	Led 0603 Yellow	LED2	Broadcom Limited	HSMY-C190	Digi-Key	516-1424-1-ND	1
PTS820	Tactile Switch SPST-NO Top Actuated Surface Mount	PB1	C&K	PTS820 .J25K SMTR LFS	Digi-Key	OKN10897CT-ND	1
Flame Sensor	VL-TT8B THT PHOTOTRANSISTOR 940nm Top View Radial	Q1	Würth Elektronik	1540051NC2590	Digi-Key	732-1540051NC2590-ND	1
TMP36	Temperature Sensor Analog, Local -40°C~125°C 10mV/°C TO-92-3	Q3	Adafruit Industries LLC	165	Digi-Key	1528-165-ND	1
Buzzer Transistor	Transistor, NPN, 40V, 0.2A, SOT-23	Q4	onsemi	MMBT3904LT1G	Digi-Key	MMBT3904LT1GOS CT-ND	1
100k	SMD Resistor	R1, R6, R9, R14	Yageo	RC0402FR-07100KL	Digi-Key	311-100KL RCT-ND	4
1M	SMD Resistor	R2	Yageo	RC0402FR-071ML	Digi-Key	311-1.00ML RCT-ND	1
330R	SMD Resistor	R3, R13	Yageo	RC0402FR-07330RL	Digi-Key	311-330L RCT-ND	2
10k	SMD Resistor	R4, R12, R15, R16, R18, R20, R22, R23, R24	Yageo	RC0603FR-0710KL	Digi-Key	311-10.0K H RCT-ND	9
4k7	SMD Resistor	R5, R7	Yageo	RC0402FR-074K7L	Digi-Key	311-4.7KL RCT-ND	2
75k	SMD Resistor	R8	Yageo	RC0402FR-0775KL	Digi-Key	311-75KL RCT-ND	1
24k	SMD Resistor	R10	Yageo	RC0402FR-0724KL	Digi-Key	311-24KL RCT-ND	1
4.7k	SMD Resistor	R11	Yageo	RC0603FR-074K7L	Digi-Key	311-4.70K H RCT-ND	1
470R	SMD Resistor	R17, R19, R25	Yageo	RC0603FR-07470RL	Digi-Key	311-470H RCT-ND	3
1k	SMD Resistor	R21	Yageo	RC0402FR-071KL	Digi-Key	311-1.00KL RCT-ND	1
Rotary Encoder	Rotary Encoder Mechanical 24 Quadrature (Incremental) Right Angle	S1	Bourns Inc.	PEC12R-2220F-S0024	Digi-Key	PEC12R-2220F-S0024-ND	1
Battery Power Switch	Battery Power Switch	SW1	ESwitch	500ASP1M6QE	Digi-Key	EG2483-ND	1
Testpoint 1mm	Testpoint 1mm	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15	NA	NA	NA	NA	15
ATSAMD21G18A	ARMv7-M Cortex-A@M0+ SAM D21G Microcontroller IC:32-Bit 48MHz 256KB (256Kx8) FLASH 48-TQFP (7x7) 48QFN	U1	Microchip Technology	ATSAMD21G18A-MU	Digi-Key	ATSAMD21G18A-MU-ND	1
NINA-W102	ESP32 WiFi/BLE module	U2	u-blox	NINA-W102-00B	Digi-Key	672-NINA-W102-00BCT-ND	1
LSM6DSOTR	6DOF IMU	U3	STMicroelectronics	LSM6DSOTR	Digi-Key	497-18181-1-ND	1
ATECC080A	Secure authentication and product validation device, EEPROM, I2C, 2.0- 5.5V	U4	Microchip Technology	ATECC080A-MAHDA-T	Digi-Key	ATECC080A-MAHDA-TCT-ND	1
Piezo Buzzer	Buzzers Indicator, Internally Driven Piezo 3 V 30mA 3.2kHz 97dB @3V, 30cm Through Hole PC Pins	U5	Mallory Sinalert Products Inc.	PK-11N40PQ	Digi-Key	458-1342-ND	1
BME680	BME680 sensor	U7	Bosch Sensortec	BME680	Digi-Key	828-1077-1-ND	1