Item	Manufactor Part Number	Supplier Part Number	Reference	Value	Package	Price	Qty Used	Component Price	Location	Datasheet	Notes
Micro button	KMR221GLFS	401-1427-1-ND	SW1		SMD	$ 0.48	1	$ 0.48	https://ww	https://ww	SPST-NO
Micro SD card receptacle	DM3D-SF	HR1941CT-ND	J1		SMD	$ 1.65	1	$ 1.65	https://ww	https://ww	CS is grounded
Micro USB receptacle	10118192-0001LF	609-4613-1-ND	J2		SMD	$ 0.42	1	$ 0.42	https://ww	https://cdn	
ESP8266 Module	ESP-12S	ESP-12SRF-ND	U1		SOM	$ 9.43	1	$ 9.43	https://ww	https://ww	Application note: run in STA mode to enable MODEM_SLEEP and conserve power
3V3 voltage regulator	AZ1117H-3.3TRE1	AZ1117H-3.3TRE1DICT-ND	U2		SOT-223	$ 0.46	1	$ 0.46	https://ww	https://me	3.3V fixed output, 1A max
USB-UART Converter	CP2104-F03-GMR	336-4146-1-ND	U3		24QFN	$ 1.65	1	$ 1.65	https://ww	https://ww	
BNO055 Breakout	2472	1528-1426-ND	U4		SMD	$ 19.95	1	$ 19.95	https://ww	https://lea	Breakout board is THT but should be solderable to SMD pads
LIR2450 Battery Holder	BS-2450	BS-2450-ND	BT1		THT	$ 1.09	1	$ 1.09	https://ww	http://ww	Only use rechargable LIR2450 cells! Undervolt otherwise
N-Channel MOSFET	DMG3414U-7	DMG3414U-7DICT-ND	Q1		SOT-23-3	$ 0.44	1	$ 0.44	https://ww	https://ww	
NPN transistor array	MBT2222ADW1T1G	MBT2222ADW1T1GOSCT-ND	Q2, Q3, Q4		SOT-363	$ 0.22	3	$ 0.66	https://ww	http://ww	2 NPN transistors
LED	SML-D12P8WT86C	SML-D12P8WT86CCT-ND	D1, D2, D3	GRN	0603	$ 0.48	3	$ 1.44	https://ww	https://ww	2.2Vf
Schottky diode	BAT400D-7-F	BAT400D-FDICT-ND	D4		SOT-23-3	$ 0.44	1	$ 0.44	https://ww	https://ww	40V, 500mA
Resistor	ESR03EZPJ102	RHM1.0KDCT-ND	R2	1k	0603	$ 0.10	1	$ 0.10	https://ww	https://ww	0.25W
Resistor	RNCP0603FTD10K0	RNCP0603FTD10K0CT-ND	R1, R3	10k	0603	$ 0.10	2	$ 0.20	https://ww	https://ww	0.125W
Resistor array	741X083102JP	741X083102JPCT-ND	RN2, RN3	1k	0804	$ 0.10	2	$ 0.20	https://ww	https://ww	4 resistors, 0.0625W
Resistor array	EXB-28V103JX	Y7103CT-ND	RN1, RN4	10k	0804	$ 0.10	2	$ 0.20	https://ww	https://ind	4 resistors, 0.0625W
Capacitor	885012206026	732-7945-1-ND	C1, C2	1 uF	0603	$ 0.10	2	$ 0.20	https://ww		10V X7R
Capacitor	ZRB18AR61E106ME01L	490-10991-1-ND	C3, C4	10 uF	0603	$ 0.48	2	$ 0.96	https://ww	https://sea	25V X5R
SD Card						$ 4.00	1	$ 4.00	https://ww		8GB, sold in bulk pack of 10
PCB						$ 0.40	1	$ 0.40			
Total								$ 44.37			