

Item	Manufacturer	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://www.mouser.com/ProductDetail/Kyocera/KMR221GLFS	https://www.mouser.com/ProductDetail/Kyocera/KMR221GLFS	SPST-NO
Micro SD card receptacle	DM3D-SF		HR1941CT-ND	J1		SMD	\$ 1.65	1	\$ 1.65	https://www.mouser.com/ProductDetail/Digi-Key/DM3D-SF	https://www.mouser.com/ProductDetail/Digi-Key/DM3D-SF	CS is grounded
Micro USB receptacle	10118192-0001LF		609-4613-1-ND	J2		SMD	\$ 0.42	1	\$ 0.42	https://www.mouser.com/ProductDetail/Amphenol/10118192-0001LF	https://www.mouser.com/ProductDetail/Amphenol/10118192-0001LF	
ESP8266 Module	ESP-12S		ESP-12SRF-ND	U1		SOM	\$ 9.43	1	\$ 9.43	https://www.mouser.com/ProductDetail/AES-TECH/ESP-12S	https://www.mouser.com/ProductDetail/AES-TECH/ESP-12S	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://www.mouser.com/ProductDetail/Maxim/AZ1117H-3.3TRE1	https://www.mouser.com/ProductDetail/Maxim/AZ1117H-3.3TRE1	3.3V fixed output, 1A max
USB-UART Converter	CP2104-F03-GMR		336-4146-1-ND	U3		24QFN	\$ 1.65	1	\$ 1.65	https://www.mouser.com/ProductDetail/Silicon-Labs/CP2104-F03-GMR	https://www.mouser.com/ProductDetail/Silicon-Labs/CP2104-F03-GMR	
BNO055 Breakout	2472		1528-1426-ND	U4		SMD	\$ 19.95	1	\$ 19.95	https://www.mouser.com/ProductDetail/Bosch/BNO055	https://www.mouser.com/ProductDetail/Bosch/BNO055	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://www.mouser.com/ProductDetail/Bosch/BS-2450	https://www.mouser.com/ProductDetail/Bosch/BS-2450	Only use rechargeable LIR2450 cells! Undervolt otherwise
N-Channel MOSFET	DMG3414U-7		DMG3414U-7DICT-ND	Q1		SOT-23-3	\$ 0.44	1	\$ 0.44	https://www.mouser.com/ProductDetail/Diodes-Incorporated/DMG3414U-7	https://www.mouser.com/ProductDetail/Diodes-Incorporated/DMG3414U-7	
NPN transistor array	MBT2222ADW1T1G		MBT2222ADW1T1GOSCT-ND	Q2, Q3, Q4		SOT-363	\$ 0.22	3	\$ 0.66	https://www.mouser.com/ProductDetail/Infineon/MBT2222ADW1T1G	https://www.mouser.com/ProductDetail/Infineon/MBT2222ADW1T1G	2 NPN transistors
LED	SML-D12P8WT86C		SML-D12P8WT86CCT-ND	D1, D2, D3	GRN	0603	\$ 0.48	3	\$ 1.44	https://www.mouser.com/ProductDetail/Samsung/SML-D12P8WT86C	https://www.mouser.com/ProductDetail/Samsung/SML-D12P8WT86C	2.2Vf
Schottky diode	BAT400D-7-F		BAT400D-FDICT-ND	D4		SOT-23-3	\$ 0.44	1	\$ 0.44	https://www.mouser.com/ProductDetail/Siliconix/BAT400D-7-F	https://www.mouser.com/ProductDetail/Siliconix/BAT400D-7-F	40V, 500mA
Resistor	ESR03EZPJ102		RHM1.0KDCT-ND	R2	1k	0603	\$ 0.10	1	\$ 0.10	https://www.mouser.com/ProductDetail/Vishay/ESR03EZPJ102	https://www.mouser.com/ProductDetail/Vishay/ESR03EZPJ102	0.25W
Resistor	RNCP0603FTD10K0		RNCP0603FTD10K0CT-ND	R1, R3	10k	0603	\$ 0.10	2	\$ 0.20	https://www.mouser.com/ProductDetail/Vishay/RNCP0603FTD10K0	https://www.mouser.com/ProductDetail/Vishay/RNCP0603FTD10K0	0.125W
Resistor array	741X083102JP		741X083102JPC-ND	RN2, RN3	1k	0804	\$ 0.10	2	\$ 0.20	https://www.mouser.com/ProductDetail/Vishay/741X083102JP	https://www.mouser.com/ProductDetail/Vishay/741X083102JP	4 resistors, 0.0625W
Resistor array	EXB-28V103JX		Y7103CT-ND	RN1, RN4	10k	0804	\$ 0.10	2	\$ 0.20	https://www.mouser.com/ProductDetail/Vishay/EXB-28V103JX	https://www.mouser.com/ProductDetail/Vishay/EXB-28V103JX	4 resistors, 0.0625W
Capacitor	885012206026		732-7945-1-ND	C1, C2	1 uF	0603	\$ 0.10	2	\$ 0.20	https://www.mouser.com/ProductDetail/AVX/885012206026	https://www.mouser.com/ProductDetail/AVX/885012206026	10V X7R
Capacitor	ZRB18AR61E106ME01L		490-10991-1-ND	C3, C4	10 uF	0603	\$ 0.48	2	\$ 0.96	https://www.mouser.com/ProductDetail/AVX/ZRB18AR61E106ME01L	https://www.mouser.com/ProductDetail/AVX/ZRB18AR61E106ME01L	25V X5R
SD Card							\$ 4.00	1	\$ 4.00	https://www.mouser.com/ProductDetail/SanDisk/SD-Card	https://www.mouser.com/ProductDetail/SanDisk/SD-Card	8GB, sold in bulk pack of 10
PCB							\$ 0.40	1	\$ 0.40			
Total									\$ 44.37			