

Creaturepod
Bill-of-Materials
Document 1.0, September 23, 2015

Item	Quantity	Reference	Manufacturer	Manuf. Part #	Distributor	Distrib. Part #	Description
1	1	ANT1	Dorji Applied Technologies	DAA043SA047S	eBay	N/A	Antenna, UHF, 433MHz, 4.7cm L, SMA male, 50R
2	1	BT1	JST Sales America	S2B-PH-SM4-TB(LF)(SN)	Digi-Key	455-1749-1-ND	Connector, 2-position, 2mm P, SMD
3	1	BT1a	Shenzhen PKCELL Battery	803860	Adafruit	2011	Li-Polymer Battery, 3.7V @ 2000mAh, mates w/ JST PH
4	5	C1, C2, C5, C6, C10	Kemet	C0805C104K4RACTU	Digi-Key	399-1167-1-ND	Capacitor, 0.1uF ceramic, 16V, X7R, 0805
5	1	C3	Kemet	C0805C224K5RACTU	Digi-Key	399-3491-1-ND	Capacitor, 0.22uF ceramic, 50V, X7R, 0805
6	2	C4, C7	Kemet	T491A106M016AT	Digi-Key	399-3687-1-ND	Capacitor, 10uF tantalum, 20%, 16V, size A
7	2	C8, C9	Johanson Technology	251R15S6R8CV4E	Digi-Key	712-1373-1-ND	Capacitor, 6.8pF ceramic, 250V, NP0, 0805
8	1	C11	Kemet	C3216X7R1A106M	Digi-Key	445-1602-1-ND	Capacitor, 10uF ceramic, 10V, X7R, 1206
9	1	L1	Sumida America Components	55081803400	Digi-Key	308-1731-1-ND	Inductor, 18nH wire wound, 70mR, 670mA, 0805
10	1	LCD1	N/A	N/A	Adafruit	1480	TFT LCD w/ ILI9340 + microSD card, 2.2", 18-bit
11	1	LS1	PUI Audio	AST-03008MR-R	Digi-Key	668-1136-ND	Speaker, 8R, 150mW, 72dB, 29.85mmD
12	1	MK1	CUI	CMC-2742PBJ-A	Digi-Key	102-1726-ND	Microphone, Electret, Omnidirectional, -42dB
13	1	P1	Amphenol-RF Division	132136	Digi-Key	ACX1232-ND	Connector, SMA female, R/A, 50R
14	1	Q1	NXP Semiconductors	BC817-25,215	Digi-Key	568-1630-1-ND	Transistor, NPN, 45V, 500mA, SOT23-3
15	5	R1, R2, R3, R4, R8	Any	Any	Digi-Key	P10KACT-ND	10k, 5%, 1/8W, 0805
16	1	R5	Any	Any	Digi-Key	P2.2KACT-ND	2.2k, 5%, 1/8W, 0805
17	3	R6, R7, R9	Any	Any	Digi-Key	P22KACT-ND	22k, 5%, 1/8W, 0805
18	3	SW1, SW2, SW3	C&K Components	KSC741J LFS	Digi-Key	CKN10309CT-ND	Switch, Pushbutton, SPST-NO, 50mA @ 32V, 390gf, Blue, SMD
18b	3	SW1, SW2, SW3	C&K Components	KSC421J 70SH LFS	Digi-Key	401-1780-1-ND	Switch, Pushbutton, SPST-NO, 50mA @ 32V, 170gf, Yellow, SMD
19	1	SW4	E-Switch	KS-04Q-01	Digi-Key	EG4797-ND	Switch, Pushbutton, SPST-NO, 10mA @ 35V, Round
20	1	SW5	NKK Switches	SS312SAH4	Digi-Key	360-3250-ND	Switch, Slide, SPDT, R/A, 0.4VA @ 24V
21	1	U1	SparkFun Electronics	DEV-11114	Adafruit	2377	Module, Arduino Mini Pro 328, 3.3V, 8MHz, DIP-24W
22	1	U2	Dorji Applied Technologies	DRA818U	eBay	N/A	Module, UHF Voice Band Transceiver, 400-470MHz
23	1	U3	National	LM4864MX/NOPB	Digi-Key	296-35420-1-ND	IC, Audio Amplifier, 725mW @ 8R, SOIC-8
24	1	U4	STMicroelectronics	LD1117S33CTR	Digi-Key	497-1241-1-ND	IC, Linear Regulator, LDO, 3.3V, 800mA, SOT223-3
25	1	PCB	OSH Park	CREATUREPOD	N/A	N/A	PCB, Fabrication