Energy Joule AMBEJW Rohs BOM (Normal Tooling)

2013-10-15   VERSION: 2

No.	Part name	Quantity	Part Type	Part No.
Electronic				
1	Antenna	1	Antenna, Chip, 2.4GHz	ANT1
2	Capacitor	3	4.7uF 0603 +/-10%	C1,C31,C39
3	Capacitor	1	0.47uF 0603 +/-10%	C2
4	Capacitor	3	1uF 0603 +/-10%	C3,C37,C38
5	Capacitor	5	10NF,0402 +/-10%, 25V, X7R	C4,C9,C10,C14,C40
6	Capacitor	2	22PF,0402 +/-5%, 50V, C0G	C5,C6
7	Capacitor	2	8.0PF, 0402+/-0.5PF, 50V, C0G, NPO	C7,C12,
8	Capacitor	1	0.47UF,0402 +/-10%, 10V, X5R	C8
9	Capacitor	10	100NF, 0402+/-10%, 16V, X7R	C11,C13,C15,C19,C20, C23,C24,C41,C42,C43
10	Capacitor	1	1.0UF, 0402+/-10%, 6.3V, X5R	C17
11	Capacitor	3	2.2UF,0603 +/-10%, 16V, X5R	C18,C35,C36
12	Capacitor	1	1000pF 0402 +/-10%	C21
13	Capacitor	1	0.047uF 0402 +/-10%	C22
14	Capacitor	1	1.8PF, +/-0.25PF, 50V, 0402, C0G, NPO	C26
15	Capacitor	2	10uF 0805 +/-10%	C32,C34
16	Capacitor	1	22uF 1206 +/-10%	C33
17	Capacitor	2	47pF 0402 +/-10%	C44,C45
18	Capacitor	2	1.0PF 0402 +/-0.25PF, 50V,	C44,C45
19	Diode	2	PSL14-MH	D1,D2
20	LED	9	5.0*5.0*1.6mm RGB LED SMD SG3M168T	D3,D4,D5,D6,D7,D8, D9,D10,D11
21	BATTERY	1	600mAh li-on 52*35*4.1mm	J2
22	Ember Programming Connector	1	2*5Pin 1.27mmFTSH-105-01-F-DV-K	J3
23	USB Connector	2	1-MD05SM	J4
24	Inductor	1	3.3NH,0603 +/- 10%, 500MA,	L1
25	Inductor	1	2.0NH, 220MA, 0402, +/- 0.1NH	L2
26	Inductor	2	2.7NH, +/-0.2NH, 850MA,0402 WIRE WOUND	L3,L6
27	Inductor	1	1.5NH, 280MA, 0402	L4
28	FERRITE Bead	1	40ohm 0603 74279260	L5
29	Transistor	3	MMBT3904LT3G SOT23	Q1,Q2,Q3

30	MOSFET	1	2N7002 SOT-23 MOSFET, N-CH	Q4
31	MOSFET	1	PFP2311A SOT-23	Q5
32	Resistor	2	10K 0402 +/-5%	R1,R47
33	Resistor	1	49.9k 0402 +/- 1%	R2
34	Resistor	1	200 0603 +/- 1%	R3
35	Resistor	1	1.65K 0402 +/- 1%	R4
36	Resistor	5	100K 0402 +/-5%	R5,R10,R12,R43,R52
37	Resistor	1	33K 0402 +/-5%	R6
38	Resistor	1	10 OHM 0402 +/-5%	R7
39	Resistor	1	1 OHM 0402 +/-5%	R11
40	Resistor	5	1k 0402 +/-5%	R16,R17,R18,R48,R51
41	Resistor	9	150 0603 +/-5%	R20,R23,R26,R29,R32, R35,R38,R41,R54
42	Resistor	18	100 0603 +/-5%	R19,R21,R22,R24,R25, R27,R28,R30,R31,R33, R34,R36,R37,R39,R40, R42,R50,R53
43	Resistor	1	470K 0402 +/-5%	R46
44	Resistor	1	2.2K 0402 +/-5%	R49
45	Resistor	2	27 ohm 0402 +/-5%	R57,R58
46	Tact Switch	3	TC-A3603A	SW1,SW2,SW3
47	IC	1	BQ24061DRCR Battery Charger	U1
48	IC	1	EM357, ZIGBEE/802.15.4 RF QFN48	U2
49	IC	1	PT6575 -TQ TQFP120Pins	U3
50	IC	1	HHM1520	B1
51	IC	1	TPS60110PWP-G20	U6
52	IC	1	MIC5366-2.7YC5	U7
53	IC	1	FT230XQ-R QFN16 USB to UART Driver	U8
54	CRYSTAL	1	24.000MHZ, +/-10PPM TOL, +/-25PPM STA, 18PF	Y1
55	PCB	1	92.2*91.4*1.6mm FR4	PCB
56	Base PCB	1	26*25*1.0mm FR4	PCB
57	LCD	1	TN 85*81*2.0mm GP08108A0	LCD
59	USB Cable	1	3.5mm*1.52M USB	
61	AC wall adapter	1	AC100~240V/5V1A 63x35x45mm USB	

Mechanical Engineer：Benny   **Electronics Engineer**：Paul   **Engineering Verification**：Ben