Energy Joule AMBEJ Rohs BOM with Skyworks

2013-10-15 VERSION: 1

with skyworks/base

| 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, COG | C5,C6 | | | |
| 7 | Capacitor | 3 | 8.2PF, 0402+/-0.5PF, 50V, COG, NPO | C7,C12,C30 | | | |
| 8 | Capacitor | 1 | 0.47UF,0402 +/-10%, 10V, X5R | C8 | | | |
| 9 | Capacitor | 11 | 100NF, 0402+/-10%, 16V, X7R | C11,C13,C15,C19,C20,C23, C24,C26,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 | 2 | 10uF 0805 +/-10% | C32,C34 | | | |
| 15 | Capacitor | 1 | 22uF 1206 +/-10% | C33 | | | |
| 16 | Capacitor | 2 | 47pF 0402 +/-10% | C44,C45 | | | |
| 17 | Capacitor | 2 | 10pF 50V +/-5% 0402 | C27,C28 | | | |
| 18 | Diode | 2 | PSL14-MH | D1,D2 | | | |
| 19 | LED | 9 | 5.0*5.0*1.6mm RGB LED SMD SG3M168T | D3,D4,D5,D6,D7,D8,D9, D10,D11 | | | |
| 20 | BATTERY | 1 | 3.7V/600mAh li-on 52*35*4.1mm | J2 | | | |
| 21 | Ember Programming Connector | 1 | 2*5Pin Spacing 1.27mm FTSH-105-01-F-DV-K | J3 | | | |
| 22 | USB Connector | 2 | 1-MD05SM | J4 | | | |
| 23 | Inductor | 1 | 3.3NH,0603 +/- 10%, 500MA, | L1 | | | |
| 24 | Inductor | 1 | 2.0NH, 220MA, 0402, +/- 0.1NH | L2 | | | |
| 25 | Inductor | 1 | 3.0nH 190mA +/-0.1nH FILM 0402 | L3 | | | |
| 26 | Inductor | 1 | 1.5NH, 280MA, 0402 | L4 | | | |
| 27 | FERRITE Bead | 1 | 40ohm 0603 74279260 | L5 | | | |
| 28 | Transistor | 3 | MMBT3904LT3G SOT23 | Q1,Q2,Q3 | | | |
| 29 | MOSFET | 1 | 2N7002 SOT-23 MOSFET, N-CH | Q4 | | | |

| 30 | MOSFET | 1 | PFP2311A SOT-23 | Q5 |
|----|-----------------|----|--|---|
| 31 | Resistor | 4 | 10K 0402 +/-5% | R1,R45,R47,R56 |
| 32 | Resistor | 1 | 49.9k 0402 +/- 1% | R2 |
| 33 | Resistor | 1 | 200 0603 +/- 1% | R3 |
| 34 | Resistor | 1 | 1.65K 0402 +/- 1% | R4 |
| 35 | Resistor | 5 | 100K 0402 +/-5% | R5,R10,R12,R43,R52 |
| 36 | Resistor | 1 | 33K 0402 +/-5% | R6 |
| 37 | Resistor | 1 | 10 OHM 0402 +/-5% | R7 |
| 38 | Resistor | 1 | 1 OHM 0402 +/-5% | R11 |
| 39 | Resistor | 5 | 1k 0402 +/-5% | R16,R17,R18,R48,R51 |
| 40 | Resistor | 9 | 150 0603 +/-5% | R20,R23,R26,R29,R32,R35, R38,R41,R54 |
| 41 | Resistor | 18 | 100 0603 +/-5% | R19,R21,R22,R24,R25,R27, R28,R30,R31,R33,R34,R36, R37,R39,R40,R42,R50,R53 |
| 42 | Resistor | 2 | 1.2K 0402 +/-5% | R43,R44 |
| 43 | Resistor | 1 | 470K 0402 +/-5% | R46 |
| 44 | Resistor | 1 | 2.2K 0402 +/-5% | R49 |
| 45 | Resistor | 1 | 4.7K 0402 +/-5% | R55 |
| 46 | Resistor | 2 | 27 ohm 0402 +/-5% | R57,R58 |
| 47 | Tact Switch | 3 | TC-A3603A | SW1,SW2,SW3 |
| 48 | IC | 1 | BQ24061DRCR Battery Charger | U1 |
| 49 | IC | 1 | EM357, ZIGBEE/802.15.4 RF QFN48 | U2 |
| 50 | IC | 1 | PT6575 -TQ TQFP120Pins | U3 |
| 51 | IC | 1 | SE2432L 2.4GHZ SMART ENERGY/ZIGBEE | U5 |
| 52 | IC | 1 | TPS60110PWP-G20 | U6 |
| 53 | IC | 1 | MIC5366-2.7YC5 | U7 |
| 54 | IC | 1 | FT230XQ-R QFN16 USB to UART Driver | U8 |
| 55 | CRYSTAL | 1 | 24.000MHZ, +/-10PPM TOL, +/-25PPM STA, 18PF | Y1 |
| 56 | РСВ | 1 | 92.2*91.4*1.6mm FR4 REV2 | РСВ |
| 57 | Base PCB | 1 | 26*25*1.0mm FR4 | PCB |
| 58 | LCD | 1 | TN 85*81*2.0mm GP08108A0 | LCD |
| 60 | USB Cable | 1 | 3.5mm*1.52M USB | |
| 62 | AC wall adapter | 1 | AC 100~240V/5V1A 63x35x45mm USB | |

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