

Partslist

| IotaWatt version 5.0 assembly – 2/12/2019 | | | | | | |
|---|--|--------------------------|-------------------|------|--------------------------------|-----|
| Description | Name | Manufacturer | Mfg Part# | RoHS | Digikey(alt) | Qty |
| PCF8523 RealTimeClock | U\$4 | | PCF8523T/1,118 | yes | 568-5306-1-ND | 1 |
| 32.768Khz 12.5pf SMD Crystal | Y1 | Abracon LLC | ABS25-32.768KHZ-T | yes | 535-9166-1-ND | 1 |
| MCP3208 | U\$1,U\$2 | Microchip Technology | MCP3208-CI/SL | yes | MCP3208-CI/SL-ND | 2 |
| 2.5V Ref Shunt 0.2% | U\$3 | Texas Instruments | TL4050B25IDBZT | yes | 296-22799-1-ND | 1 |
| LM358 Dual Op-Amp | U\$22 | Texas Instruments | LM358DR | yes | 296-1014-1-ND | 1 |
| TVS 4Chan Array | U\$17,U\$19,U\$20,U\$21 | Diodes Incorporated | D1213A-04SO-7 | yes | D1213A-04SO-7DICT-ND | 4 |
| CR1220 battery holder | U\$18 | MPD (Mem Prot Dev) | BC501SM | yes | BC501SM-ND | 1 |
| CR1220 battery | | Commodity | | n/a | | 1 |
| Micro SD socket | J\$20 | Amphenol | 114-00841-68 | yes | 114-00841-68-1-ND | 1 |
| 5.5x2mm Power Plug SMD | J0 | CUI Inc | PJ-002AH-SMT-TR | yes | CP-002AHPJCT-ND | 1 |
| 3.5mm Stereo Jack SMD | J1-J14 | CUI Inc | SJ-3524-SMT-TR | yes | CP-3524SJCT-ND | 14 |
| LED trh red/green | U\$23 | Lumex Opto/Components In | SSF-LXH103HGW | yes | 67-2237-ND | 1 |
| 220ohm 0.5% 0805 Resistor | R4 | Commodity | | yes | 311-220CRCT-ND | 1 |
| 4.7K 0.5% 0805 Resistor | R1,R2 | Commodity | | yes | RR12P4.7KDCT-ND | 2 |
| 1K 0.5% 0805 Resistor | R3, R5, R7, R29,R31 | Commodity | | yes | RR12P1.0KDCT-ND | 5 |
| 12K 0.5% 0805 Resistor | R6, R9, R32 | Commodity | | yes | RR12P12.0KDCT-ND | 3 |
| 20ohm 0.5% 0805 Resistor | (see below) | Commodity | | yes | RR12Q20DCT-ND | 14 |
| | R8,R12,R16,R20,R24,R28,R36,R40,R44,R48,R52,R56,R57,R58 | | | | | |
| 10uf 0805 Capacitor | C1,C2,C7,C9 | Commodity | | yes | 311-1459-1-ND | 4 |
| 0.1uf 0805 Capacitor | C3-C6 | Commodity | | yes | | 4 |
| PCB | | UR Recognized | | yes | | 1 |
| The PCB can be built in either of two configurations using the following specific parts: | | | | | | |
| Version P1 | | | | | | |
| RES 0 Ohm Jumper 0805 | R10, R11 | Commodity | | yes | 311-0.0ARTR-ND | 2 |
| Omitted | J15, J16 | | | | | |
| Version P3 | | | | | | |
| 5.5x2mm Power Plug SMD | J15, J16 | CUI Inc | PJ-002AH-SMT-TR | yes | CP-002AHPJCT-ND | 2 |
| Omitted | R10, R11 | | | | | |
| Custom nodeMCU and 8GB Sdcards provided by IoTaWatt, Inc. | | | | | | |