

## MAPone\_BoM

| Item No | Reference        | Qty | Catalog   | Part Description                | Part Value | Part Package                           | Manufacturers Name                     | Manufacturers Part No. | Distributors Name | Distributors Part No. | Unit Price | Total Price | Notes/Remark | Link                                | Extended Price (100 nos) | Total Extended Price (100 nos) |
|---------|------------------|-----|-----------|---------------------------------|------------|--|--|------------------------|-------------------|-----------------------|------------|-------------|--------------|-------------------------------------|--------------------------|--------------------------------|
|         |                  |     |           |                                 |            |  |  |                        |                   | \$1.00                |            | \$13.77     |              |                                     |                          | \$8.36                         |
|         |                  |     |           |                                 |            |  |  |                        |                   | ₹60.00                |            | ₹826.20     |              |                                     |                          | ₹501.57                        |
| 1       | C2               | 1   | Capacitor | CAP ALUM 100UF 35V 20% RADIAL   | 100uF, 35V | 2.5mm pitch                            | Kemet                                  | ESK107M035AE3AA        | Digikey           | 399-6104-ND           | 0.21       | 0.21        |              | <a href="http://www">http://www</a> | 0.0711                   | 0.071                          |
| 2       | C1,C3, C4,C5, C6 | 5   | Capacitor | CAP CER 0.1UF 50V 10% X7R 0805  | 100nF, 50V | 0805 (2012 Metric)                     | Samsung Electro-Mechanics America, Inc | CL21B104KBCNNNC        | Digikey           | 1276-1003-1-ND        | 0.10       | 0.50        |              | <a href="http://www">http://www</a> | 0.0209                   | 0.105                          |
| 3       | C7,C8            | 2   | Capacitor | CAP CER 22PF 50V 5% NPO 0805    | 22pF, 50V  | 0805 (2012 Metric)                     | Samsung Electro-Mechanics America, Inc | CL21C220JBANFNC        | Digikey           | 1276-2606-1-ND        | 0.10       | 0.20        |              | <a href="http://www">http://www</a> | 0.0220                   | 0.044                          |
| 4       | D1               | 1   | Diode     | DIODE GEN PURPOSE 1000V 1A D041 | 1N4007     | D0-204AL, D0-41, Axial                 | Micro Commercial Co                    | 1N4007-TP              | Digikey           | 1N4007-TPMSCT-ND      | 0.11       | 0.11        |              | <a href="http://www">http://www</a> | 0.0649                   | 0.065                          |
| 5       | D2               | 1   | Led       | LED RED DIFF 3MM 625NM          | LED PWR    | Round with Domed Top, 3mm, T-1         | Kingbright                             | WP710A10ID             | Digikey           | 754-1606-ND           | 0.13       | 0.13        |              | <a href="http://www">http://www</a> | 0.0715                   | 0.072                          |
| 6       | D3               | 1   | Led       | LED GREEN DIFF 3MM 568NM        | LED_BLINK  | Round with Domed Top, 3mm, T-1         | Kingbright                             | WP710A10GD             | Digikey           | 754-1603-ND           | 0.13       | 0.13        |              | <a href="http://www">http://www</a> | 0.0715                   | 0.072                          |
| 7       | J2               | 1   | Connector | CONN USB MICRO B RECP SMT R/A   | USB_Micro  | Surface Mount, Right Angle, Horizontal | FCI                                    | 10118193-0001LF        | Digikey           | 609-4616-1-ND         | 0.46       | 0.46        |              | <a href="http://www">http://www</a> | 0.3032                   | 0.303                          |
| 8       | R1               | 1   | Resistor  | RES 10K OHM 1/8W 5% CF AXIAL    | 10k        | Axial, 0.125W, 1/8W                    | Stackpole Electronics Inc              | CF18JT10K0             | Digikey           | CF18JT10K0CT-ND       | 0.10       | 0.10        |              | <a href="http://www">http://www</a> | 0.0271                   | 0.027                          |
| 9       | R2,R3            | 2   | Resistor  | RES 300 OHM 1/8W 5% CF AXIAL    | 300E       | Axial, 0.125W, 1/8W                    | Stackpole Electronics Inc              | CF18JT300R             | Digikey           | CF18JT300RCT-ND       | 0.10       | 0.20        |              | <a href="http://www">http://www</a> | 0.0271                   | 0.054                          |

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|    |               |   |           |   |                                  |   |                                   |                 |             |                 |      |      |                                     |        |       |
|----|---------------|---|-----------|---|----------------------------------|---|-----------------------------------|-----------------|-------------|-----------------|------|------|-------------------------------------|--------|-------|
| 10 | SW1           | 1 | Switch    | SWITCH<br>TACTILE<br>SPST-NO<br>0.05A 12V   | SW_RST                           | 6.00mm x<br>6.00mm  | TE<br>Connectivity                | 1825910-6       | Digikey     | 450-1650-ND     | 0.10 | 0.10 | <a href="http://www">http://www</a> | 0.8190 | 0.819 |
| 11 | U1            | 1 | IC        | IC MCU<br>8BIT 32KB<br>FLASH<br>28DIP       |                                  | 28-DIP<br>(0.300",<br>7.62mm)                               | Atmel                             | ATMEGA328-PU    | Digikey     | ATMEGA328-PU-ND | 3.41 | 3.41 | <a href="http://www">http://www</a> | 2.4970 | 2.497 |
| 12 | X1            | 1 | Crystal   | Xtal_16MHz                                  | CRYSTAL<br>16MHZ<br>20PF<br>THRU | Through<br>Hole,<br>HC49/US                                 | TXC<br>CORPORATION                | 9B-16.000MBBK-B | Digikey     | 887-2015-ND     | 0.33 | 0.33 | <a href="http://www">http://www</a> | 0.2200 | 0.220 |
| 13 | H1,<br>H5, H8 | 1 | Connector | Male<br>Header,<br>0.1"                     | V_SEL,<br>AREF,<br>FTDI          | Header,<br>unshrouded,<br>male,<br>0.100"<br>(2.54mm)       | Sullins<br>Connector<br>Solutions | PREC040SAAN-RC  | Digikey     | S1012EC-40-ND   | 0.56 | 0.56 | <a href="http://www">http://www</a> | 0.4160 | 0.416 |
| 14 | H9            | 1 | Connector | CONN<br>HEADER .<br>100" DUAL<br>STR 6POS   |                                  |   | Sullins<br>Connector<br>Solutions | PREC003DAAN-RC  | Digikey     | S2012EC-03-ND   | 0.28 | 0.28 | <a href="http://www">http://www</a> | 0.2033 | 0.203 |
| 15 | J1            | 1 | Connector | CON PWR<br>JCK 2.0 X<br>6.0MM<br>W/SHLD     | BARREL_J<br>ACK                  | 2.1mm ID,<br>5.5mm OD                                       | CUI Inc                           | PJ-047A         | Digikey     | CP-047A-ND      | 0.97 | 0.97 | <a href="http://www">http://www</a> | 0.5740 | 0.574 |
| 16 | H2, H4        | 2 | Connector | CONN<br>HEADER<br>FEMALE<br>6POS .1"<br>TIN | Power,<br>Analog                 | Through<br>Hole,<br>Female<br>Socket,<br>0.100"<br>(2.54mm) | Sullins<br>Connector<br>Solutions | PPTC061LFBN-RC  | Digikey     | S7004-ND        | 0.68 | 1.36 | <a href="http://www">http://www</a> | 0.4028 | 0.806 |
| 17 | H6, H7        | 2 | Connector | CONN<br>HEADER<br>FEMALE<br>8POS .1"<br>TIN | IO_L,<br>IO_H                    | Through<br>Hole,<br>Female<br>Socket,<br>0.100"<br>(2.54mm) | Sullins<br>Connector<br>Solutions | PPTC081LFBN-RC  | Digikey     | S7006-ND        | 0.86 | 1.72 | <a href="http://www">http://www</a> | 0.5063 | 1.013 |
| 18 | PCB           | 1 | --        | Yellow<br>Mask,<br>Black<br>Legend          | MAPone                           | --  | seed studio                       | Fusion Service  | seed stud-- |                 | 3.00 | 3.00 | <a href="http://www">http://www</a> | 1.0000 | 1.000 |

| Id | Designator     | Package                              | Quantity | Designation |
|----|----------------|--------------------------------------|----------|-------------|
| 1  | C2             | Elko_vert_11.2x6.3mm_RM2.5           | 1        | 100u        |
| 2  | C1,C3,C4,C5,C6 | C_0805_HandSoldering                 | 5        | 100n        |
| 3  | C7,C8          | C_0805_HandSoldering                 | 2        | 22pF        |
| 4  | D1             | Diode_DO-41_SOD81_Vertical_KathodeUp | 1        | 1N4007      |
| 13 | D2             | LED-3MM                              | 1        | PWR         |
| 14 | D3             | LED-3MM                              | 1        | Blink       |
| 15 | J2             | USB_B_Micro                          | 1        | USB-Micro   |
| 16 | R1             | R_0805_HandSoldering                 | 1        | 10k         |
| 19 | R2,R3          | R_0805_HandSoldering                 | 2        | 330E        |
| 20 | SW1            | SW-PB                                | 1        | RST         |
| 21 | U1             | LM78XXV                              | 1        | 7805        |
| 23 | X1             | Crystal_HC49-U_Vertical_3Pin         | 1        | 16MHz       |
| 7  | H2             | Socket_Strip_Straight_1x06           | 1        | Power       |
| 8  | H4             | Socket_Strip_Straight_1x06           | 1        | ANALOG      |
| 10 | H6             | Socket_Strip_Straight_1x08           | 1        | IO_L        |
| 11 | H7             | Socket_Strip_Straight_1x08           | 1        | IO_H        |
| 6  | H1             | Header_3                             | 1        | V_SEL       |
| 9  | H5             | Header_A_REF                         | 1        | AREF        |
| 12 | H8             | Header_FTDI                          | 1        | FTDI        |
| 17 | H9             | Header_ICSP                          | 1        | ISP         |
| 18 | J1             | JACK_ALIM                            | 1        | BARREL_JACK |
| 22 | U2             | DIP-28__300_ELL_ZIF                  | 1        | ATMEGA328-P |