

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 ₹60.00 | | \$14.23 ₹853.80 | | | | \$8.65 ₹519.17 |
| 1 | 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 | | http://www | 0.0209 | 0.105 |
| 2 | C2 | 1 | Capacitor | CAP ALUM 100UF 35V 20% RADIAL | 100uF, 35V | 2.5mm pitch | Kemet | ESK107M035AE3AA | Digikey | 399-6104-ND | 0.21 | 0.21 | | http://www | 0.0711 | 0.071 |
| 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 | | http://www | 0.0220 | 0.044 |
| 4 | D1 | 1 | Diode | DIODE GEN PURPOSE 1000V 1A D041 | 1N4007 | DO-204AL, DO-41, Axial | Micro Commercial Co | 1N4007-TP | Digikey | 1N4007-TPMSCT-ND | 0.11 | 0.11 | | http://www | 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 | | http://www | 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 | | http://www | 0.0715 | 0.072 |
| 7 | J1 | 1 | Connector | CON PWR JCK 2.0 X 6.0MM W/SHLD | BARREL_JACK | 2.1mm ID, 5.5mm OD | CUI Inc | PJ-047A | Digikey | CP-047A-ND | 0.97 | 0.97 | | http://www | 0.5740 | 0.574 |
| 8 | J2 | 1 | Connector | CONN USB MICRO B RECPT SMT R/A | USB_Micro | Surface Mount, Right Angle, Horizontal | FCI | 10118193-0001LF | Digikey | 609-4616-1-ND | 0.46 | 0.46 | | http://www | 0.3032 | 0.303 |
| 9 | 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 | | http://www | 0.0271 | 0.027 |
| 10 | 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 | | http://www | 0.0271 | 0.054 |

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|----|--------------------------|---|-----------|---|----------------------------------|---|-----------------------------------|-----------------|---------|-----------------|------|------|-------------------------------------|--------|-------|
| 11 | SW1 | 1 | Switch | SWITCH TACTILE SPST-NO 0.05A 12V | SW_RST | 6.00mm x 6.00mm | TE Connectivity | 1825910-6 | Digikey | 450-1650-ND | 0.10 | 0.10 | http://www | 0.8190 | 0.819 |
| 12 | U1 | 1 | IC | IC REG LDO 5V 1A TO220AB | 7805 TO-220-3 | | ON Semiconducto r | NCP7805TG | Digikey | NCP7805TG0S-ND | 0.46 | 0.46 | http://www | 0.2934 | 0.293 |
| 13 | U2 | 1 | IC | IC MCU 8BIT 32KB FLASH 28DIP | | 28-DIP (0.300", 7.62mm) | Atmel | ATMEGA328-PU | Digikey | ATMEGA328-PU-ND | 3.41 | 3.41 | http://www | 2.4970 | 2.497 |
| 14 | X1 | 1 | Crystal | Xtal_16MHz | CRYSTAL 16MHZ 20PF THRU | Through Hole, HC49/US | TXC CORPORATION | 9B-16.000MBBK-B | Digikey | 887-2015-ND | 0.33 | 0.33 | http://www | 0.2200 | 0.220 |
| 15 | H1, H3, H5, H8, | 1 | Connector | Male Header, 0.1" | V_SEL, AREF, FTDI | Header, unshrouded, male, 0.100" (2.54mm) | Sullins Connector Solutions | PREC040SAAN-RC | Digikey | S1012EC-40-ND | 0.56 | 0.56 | http://www | 0.4160 | 0.416 |
| 16 | H2, H4 | 2 | Connector | CONN HEADER FEMALE 6POS .1" TIN | Power, Analog | Through Hole, Female Socket, 0.100" (2.54mm) | Sullins Connector Solutions | PPTC061LFBN-RC | Digikey | S7004-ND | 0.68 | 1.36 | http://www | 0.4028 | 0.806 |
| 17 | H9 | 1 | Connector | CONN HEADER . 100" DUAL STR 6POS | ISCP | Header, unshrouded, male, 0.100" (2.54mm), 3x2 | Sullins Connector Solutions | PREC003DAAN-RC | Digikey | S2012EC-03-ND | 0.28 | 0.28 | http://www | 0.2033 | 0.203 |
| 18 | H6, H7 | 2 | Connector | CONN HEADER FEMALE 8POS .1" TIN | IO_L, IO_H | Through Hole, Female Socket, 0.100" (2.54mm) | Sullins Connector Solutions | PPTC081LFBN-RC | Digikey | S7006-ND | 0.86 | 1.72 | http://www | 0.5063 | 1.013 |
| 19 | PCB | 1 | -- | Yellow Mask, Black Legend | MAPone | -- | seeed studio Fusion Service | seeed stud-- | | | 3.00 | 3.00 | http://www | 1.0000 | 1.000 |