

| Item Number | Description                                                                                           | BOM.Item Subtype    | BOM.Quantity |
|-------------|-------------------------------------------------------------------------------------------------------|---------------------|--------------|
| 1600674     | PCA, MINI-MANGO                                                                                       |                     |              |
| 1710123     | CONN, 3 PIN, VERTICAL HEADER, POST TERMINAL STRIP, SINGLE ROW, 2.54MM PITCH, THRU, 7.62x2.54x10.7mm   | Connector           | 1            |
| 1710427     | CONN, 3 PIN, RF, ULTRA MINIATURE, STRAIGHT, 0-6GHz, U.FL, 3x3.1x1.45mm                                | Connector           | 4            |
|             |                                                                                                       |                     |              |
|             |                                                                                                       |                     |              |
|             |                                                                                                       |                     |              |
| 1710607     | CONN, USB, TYPE A, RECEPTACLE, RIGHT ANGLE, THRU, 14.5x14x7.7mm                                       | Connector           | 1            |
| 1710731     | CONN, USB, MICRO, TYPE A/B, RECEPTACLE, RIGHT ANGLE, REVERSE (TOP MOUNT), THRU/SMT, 7.5x5.6x2.8mm     | Connector           | 2            |
| 2500927     | SCHEMATIC, MINI-MANGO                                                                                 | Factory             | 0            |
| 3000848     | CAP, 10uF, 10V, 20%, X5R, CERAMIC, 0805                                                               | Capacitor           | 1            |
|             |                                                                                                       |                     |              |
|             |                                                                                                       |                     |              |
| 3001244     | CAP, 10pF, 50V, 5%, C0G, CERAMIC, 0402                                                                | Capacitor           | 4            |
| 3001245     | CAP, 12pF, 50V, 5%, C0G, 0402                                                                         | Capacitor           | 2            |
|             |                                                                                                       |                     |              |
|             |                                                                                                       |                     |              |
| 3001246     | CAP, 15pF, 50V, 5%, C0G, CERAMIC, 0402                                                                | Capacitor           | 1            |
| 3001248     | CAP, 22pF, 50V, 5%, C0G, CERAMIC, 0402                                                                | Capacitor           | 21           |
| 3001252     | CAP, 47pF, 50V, 5%, C0G, CERAMIC, 0402                                                                | Capacitor           | 2            |
|             |                                                                                                       |                     |              |
|             |                                                                                                       |                     |              |
| 3001253     | CAP, 56pF, 50V, 5%, C0G, CERAMIC, 0402                                                                | Capacitor           | 1            |
| 3001280     | CAP, 47nF, 10V, 10%, X7R, CERAMIC, 0402                                                               | Capacitor           | 1            |
| 3001336     | CAP, 3.9pF, 50V, +/-0.25pF, C0G, CERAMIC, 0402                                                        | Capacitor           | 1            |
| 3001346     | CAP, 470nF, 6.3V, 10%, X5R, CERAMIC, 0402                                                             | Capacitor           | 2            |
|             |                                                                                                       |                     |              |
| 3001347     | CAP, 2.2uF, 6.3V, 10%, X5R, CERAMIC, 0603                                                             | Capacitor           | 5            |
| 3001370     | CAP, 4.7uF, 10V, 10%, X5R, CERAMIC, 0603                                                              | Capacitor           | 2            |
|             |                                                                                                       |                     |              |
|             |                                                                                                       |                     |              |
| 3001381     | CAP, 100pF, 25V, 10%, X7R, CERAMIC, 0201                                                              | Capacitor           | 1            |
|             |                                                                                                       |                     |              |
| 3001406     | CAP, 10pF, 5%, 25V, C0G, CERAMIC, 0201                                                                | Capacitor           | 2            |
|             |                                                                                                       |                     |              |
|             |                                                                                                       |                     |              |
| 3001567     | CAP, 1.5pF, 25V, +/-0.25pF, C0G, HI-Q, LOW LOSS, 0201                                                 | Capacitor           | 1            |
| 3001607     | CAP, 0.7pF, 25V, +/-0.1pF, C0G, CERAMIC, 0201                                                         | Capacitor           | 1            |
|             |                                                                                                       |                     |              |
| 3001731     | CAP, 100nF, 16V, 10%, X7R, CERAMIC, 0402                                                              | Capacitor           | 42           |
|             |                                                                                                       |                     |              |
|             |                                                                                                       |                     |              |
| 3001747     | CAP, 10uF, 6.3V, 20%, X5R, CERAMIC, 0603                                                              | Capacitor           | 2            |
| 3001764     | CAP, 1uF, 10V, 10%, X5R, CERAMIC, 0402                                                                | Capacitor           | 14           |
| 3001834     | CAP, 4.7uF, 6.3V, 20%, X5R, CERAMIC, 0402                                                             | Capacitor           | 5            |
|             |                                                                                                       |                     |              |
| 3001909     | CAP, 22uF, 6.3V, 20%, X5R, CERAMIC, 0603                                                              | Capacitor           | 4            |
| 3012590     | RES, 0, 0%, 1/16W, 50V, -55 +125C, 0402                                                               | Resistor            | 58           |
|             |                                                                                                       |                     |              |
| 3012828     | RES, 0.068, 1%, 1/4W, 150V, -55 +155C, 0805                                                           | Resistor            | 1            |
|             |                                                                                                       |                     |              |
| 3015015     | IC, DC/DC STEP-UP CONVERTER, 5V, 1500mA, 3.5MHz, BGA-9P, 1.3x1.2x0.625mm                              | IC - Regulator      | 1            |
| 3015016     | IC, 32Mb SERIAL FLASH, 2.65-3.6V, SINGLE/DUAL/QUAD I/O, SOIC-8, 4.9x3.9x1.75mm                        | IC - Memory         | 1            |
| 3015028     | IC, BUFFER, DUAL, TRI-STATE, DFN-8, 1.2x1x0.35mm                                                      | IC - Logic          | 1            |
| 3015032     | IC, LIGHT SENSOR, 560nm, CURRENT OUTPUT, DFN-6, 1.55x1.5x0.63mm                                       | IC - Misc           | 1            |
| 3015034     | CONN, 26 PIN, HEADER, DUAL ROW, MALE, THRU, 2.54MM PITCH, 33x4.83x11.56mm                             | Connector           | 1            |
| 3015046     | NUT, SURFACE MOUNT, M2 THREADS, TIN FINISH, L=4.4mm, D=4.35mm                                         | Misc Electrical     | 2            |
| 3015143     | IC, USB/SPI BRIDGE, 3/4 WIRE SPI, 11 GPIO, QFN-24, 4x4x0.8mm                                          | IC - Misc           | 1            |
| 3015145     | CONN, 38 PIN, EVERCLEAR ENHANCED, HIGH SPEED, SMT-RA, 18.2x11.5x5.48mm                                | Connector           | 1            |
| 3015192     | IC, 32Kb EEPROM, I2C, DFN-8, 2x3x0.8mm                                                                | IC - Memory         | 1            |
| 3015237     | IC, INERTIA MEASUREMENT UNIT, I2C/SPI, LOW POWER, 2/4/8/16g, QFN-14, 2.5x3x0.88mm                     | IC - Misc           | 1            |
| 3015337     | IC, APP PROCESSOR, WIFI, BLUETOOTH, 5 LDO/BUCK PMU, UART/I2C/SPI/I2S/PWM/IrDA, ADC, QFN-68, 8x8x0.9mm | IC - Microprocessor | 1            |
| 3015338     | ANTENNA, BLUETOOTH/WLAN/WiFi, 2.4GHz, CERAMIC CHIP, 3.2x1.6x1.1mm                                     | Antenna             | 1            |
| 3016096     | IND, 1.2nH, +/-0.1nH, 280mA, 0201                                                                     | Inductor            | 1            |
|             |                                                                                                       |                     |              |
| 3016126     | FILTER, BALUN, CHIP, 2450MHz, +/-50MHz, 2W, 50 UNBALANCED/50 BALANCED, 1.6x0.8x0.7mm                  | RF Filter           | 1            |

|         |                                              |           |    |
|---------|----------------------------------------------|-----------|----|
| 3100044 | CAP, 100pF, 50V, 5%, C0G, CERAMIC, 0402      | Capacitor | 12 |
| 3100053 | CAP, 470pF, 50V, 10%, X7R, CERAMIC, 0402     | Capacitor | 1  |
| 3100073 | CAP, 100nF, 10V, 10%, X5R, CERAMIC, 0402     | Capacitor | 18 |
| 3100076 | CAP, 4.7uF, 6.3V, 20%, X5R, CERAMIC, 0402    | Capacitor | 5  |
| 3100087 | CAP, 10uF, 10V, 10%, X5R, CERAMIC, 0805      | Capacitor | 3  |
| 3100236 | CAP, 220nF, 50V, 20%, X7R, CERAMIC, 0603     | Capacitor | 3  |
| 3100239 | CAP, 1.5mF, 6.3V, 20%, TANTALUM, 7.2x6.3x2mm | Capacitor | 1  |
| 3100445 | CAP, 47uF, 10V, 20%, X5R, CERAMIC, 1206      | Capacitor | 5  |
| 3100541 | CAP, 22uF, 10V, 20%, X5R, CERAMIC, 0805      | Capacitor | 1  |
| 3100551 | CAP, 4.7uF, 6.3V, 20%, X5R, CERAMIC, 0402    | Capacitor | 3  |
| 3100552 | CAP, 10uF, 10V, 20%, X5R, CERAMIC, 0603      | Capacitor | 8  |
| 3200941 | RES, 22, 1%, 1/16W, 50V, -55 +155C, 0402     | Resistor  | 2  |
| 3200952 | RES, 27, 1%, 1/16W, 50V, -55 +155C, 0402     | Resistor  | 2  |
| 3200967 | RES, 36, 1%, 1/16W, 50V, -55 +155C, 0402     | Resistor  | 1  |
| 3200985 | RES, 330, 1%, 1/16W, 50V, -55 +155C, 0402    | Resistor  | 2  |
| 3201008 | RES, 2.2K, 1%, 1/16W, 50V, -55 +155C, 0402   | Resistor  | 1  |
| 3201065 | RES, 150, 1%, 1/16W, 50V, -55 +155C, 0402    | Resistor  | 1  |
| 3201209 | RES, 4.7K, 1%, 1/16W, 50V, -55 +155C, 0402   | Resistor  | 8  |
| 3201215 | RES, 5.23K, 1%, 1/16W, 50V, -55 +155C, 0402  | Resistor  | 1  |
| 3201238 | RES, 8.25K, 1%, 1/16W, 50V, -55 +155C, 0402  | Resistor  | 1  |
| 3201247 | RES, 10K, 1%, 1/16W, 50V, -55 +155C, 0402    | Resistor  | 23 |
| 3201255 | RES, 12K, 1%, 1/16W, 50V, -55 +155C, 0402    | Resistor  | 1  |
| 3201279 | RES, 20K, 1%, 1/16W, 50V, -55 +155C, 0402    | Resistor  | 1  |
| 3201300 | RES, 30.1K, 1%, 1/16W, 50V, -55 +155C, 0402  | Resistor  | 1  |
| 3201361 | RES, 100K, 1%, 1/16W, 50V, -55 +155C, 0402   | Resistor  | 1  |
| 3201388 | RES, 180K, 1%, 1/16W, 50V, -55 +155C, 0402   | Resistor  | 2  |
| 3201423 | RES, 360K, 1%, 1/16W, 50V, -55 +155C, 0402   | Resistor  | 1  |
| 3201465 | RES, 820K, 1%, 1/16W, 50V, -55 +155C, 0402   | Resistor  | 4  |
| 3201602 | RES, 33, 5%, 1/16W, 50V, -55 +155C, 0402     | Resistor  | 3  |
| 3201614 | RES, 100, 5%, 1/16W, 50V, -55 +155C, 0402    | Resistor  | 3  |
| 3201642 | RES, 1.5K, 5%, 1/16W, 50V, -55 +155C, 0402   | Resistor  | 5  |
| 3201662 | RES, 10K, 5%, 1/16W, 50V, -55 +155C, 0402    | Resistor  | 19 |

|         |                                                                                            |                     |    |
|---------|--------------------------------------------------------------------------------------------|---------------------|----|
| 3201678 | RES, 47K, 5%, 1/16W, 50V, -55 +155C, 0402                                                  | Resistor            | 11 |
| 3201679 | RES, 51K, 5%, 1/16W, 50V, -55 +155C, 0402                                                  | Resistor            | 1  |
| 3201686 | RES, 100K, 5%, 1/16W, 50V, -55 +155C, 0402                                                 | Resistor            | 1  |
| 3201738 | RES, 0, 0%, 1/20W, 25V, -55 +125C, 0201                                                    | Resistor            | 3  |
| 3201741 | RES, 0, 0%, 1/10W, 50V, -55 +155C, 0603                                                    | Resistor            | 3  |
| 3201873 | RES, 10K, 0.1%, 1/16W, 50V, -55 +155C, 0402                                                | Resistor            | 1  |
| 3300010 | FERRITE BEAD, 600 OHM@100MHz, 25%, 420mA, DCR=0.34 OHM, 0402                               | Inductor            | 4  |
| 3300052 | IND, 1nH, +/-0.3nH, 470mA, 0201                                                            | Inductor            | 2  |
| 3300147 | IND, 2.2uH, 30%, 1.1A, DCR=0.11 OHM, MULTILAYER, 2.5x2x1mm                                 | Inductor            | 1  |
| 3300498 | IND, 2.2uH, 30%, 1.1A, DCR=0.11 OHM, MULTILAYER, 2x1.6x1mm                                 | Inductor            | 2  |
| 3300531 | FERRITE BEAD, 120OHM, 2.7A, DCR=0.035OHM, 0603, 1.6x0.8x0.8mm                              | Inductor            | 4  |
| 3300538 | IND, 3.3 uH, 20%, 6.6A, DCR=26mOHM, 4x4x3.1mm                                              | Inductor            | 1  |
| 3300540 | FERRITE BEAD, 880OHM, 4A, DCR=35mOHM, 1812, 4.5x3.2x1.7mm                                  | Inductor            | 1  |
| 3300601 | IND, 1uH, 20%, 3.2A, DCR=70mOHM, 0805                                                      | Inductor            | 1  |
| 3400217 | IC, AUDIO CODEC, HI-FI, LOW POWER, VIDEO BUFFER, BGA-25, 2.41x2.41x0.8mm                   | IC - Misc           | 1  |
| 3400230 | IC, LDO, 2.95V, 300mA, INRUSH CURRENT PROTECTION, DFN-4, 1x1x0.4mm                         | IC - Regulator      | 1  |
| 3400486 | IC, 8-BIT DUAL-SUPPLY SIGNAL TRANSLATOR, 1.65-5.5V, 3-STATE OUTPUTS, QFN-20, 2.5x4.5x0.8mm | IC - Misc           | 3  |
| 3400745 | IC, I2C/SMBus EXPANDER, QUAD, TSSOP-16, 5x4.4x1.2mm                                        | IC - Misc           | 1  |
| 3400746 | IC, ANALOG SWITCH, QUAD, SPDT, RDSON=10OHM, QFN-16, 2.6x1.8x0.55mm                         | IC - Analog         | 2  |
| 3400747 | IC, SDIO EXPANDER, 6-12 MUX/DEMUX, BGA-24, 3x3x1mm                                         | IC - Misc           | 1  |
| 3400748 | IC, USB 2.0 HUB CONTROLLER, 3-PORT, BGA-25, 2x2x0.62mm                                     | IC - Microprocessor | 1  |
| 3400750 | IC, LOAD SWITCH, 0.5A, RDSON=140mOHM, SOIC-8, 4.9x3.9x1.7mm                                | IC - Analog         | 1  |
| 3400751 | IC, GPIO EXPANDER, 16 CHANNEL, LED DRIVER, KEYPAD ENGINE, QFN-28, 4x4x0.6mm                | IC - Misc           | 1  |
| 3400885 | IC, USB/UART CONVERTER, USB2.0, QFN-16, 4x4x0.8mm                                          | IC - Misc           | 1  |
| 3400961 | IC, PRESSURE SENSOR, THERMISTOR, 20-BIT, I2C/SPI, DFN-8, 2.5x2x1mm                         | IC - Misc           | 1  |
| 3401132 | IC, LI-ION BATTERY CHARGER, I2C, USB OTG, 3.9-6.2V, 3A, 1.5MHz, QFN-24, 4x4x1mm            | IC - Regulator      | 1  |
| 3500014 | XSTR, DUAL NPN, BIASED, 50V, 100mA, SOT963-6, 1x0.8x0.4mm                                  | Transistor          | 3  |
| 3500017 | XSTR, NPN, 50V, 20mA, 100K AND 100K BIAS, SC101-3, 0.6x1x0.5mm                             | Transistor          | 1  |
| 3600034 | DIO, ESD PROTECTION, 4-LINES, USB-HS/USB OTG, DFN-6, 1.45x1x0.6mm                          | Diode               | 2  |
| 3600035 | DIO, ESD PROTECTION, 6 LINES, HIGH-SPEED DATA INTERFACES, QFN-8, 1.5x1.5x0.6mm             | Diode               | 1  |
| 3600051 | LED, GREEN, RIGHT ANGLE, SMT, 2V, 25mA, 3x2x1.1mm                                          | Diode               | 3  |
| 3600208 | DIO, LED, GREEN, DIFFUSED, 0603, 1.7x0.8x0.68mm                                            | Diode               | 1  |
| 3800100 | OSC, 26MHz, 50ppm, CMOS, 15pF, 3.2x2.5x1mm                                                 | Oscillator          | 1  |
| 3800102 | XTAL, THERMISTOR, 26MHz, 10ppm, 7pF, 2.5x2x1mm                                             | Oscillator          | 1  |
| 3900188 | CONN, 6 PIN, 3.5MM AUDIO JACK, SWITCH, RIGHT ANGLE, SMT/THRU HOLE, 14.8x6.4x4.6mm          | Connector           | 1  |
| 3900197 | CONN, SNAP-IN SOCKET FRAME, for SMART MODULES, 26.5x25.5x7.1mm                             | Connector           | 1  |
| 3900246 | CONN, 25 PIN, MICROSD/SIM COMBO, SWITCH, PUSH-PULL, 17.8x12.9x1.28mm                       | Connector           | 1  |
| 3900293 | CONN, 6 PIN, HEADER, DUAL ROW, MALE, THRU, 2.54mm PITCH, 7.62x5.08x0.38mm                  | Connector           | 2  |
| 3900294 | CONN, 2 PIN, HEADER, SHROUDED, MALE, THRU, 2mm PITCH, 5.9x4.5x6mm                          | Connector           | 1  |
| 5001006 | IC, AND GATE, 2-INPUT, TINYLOGIC, DFN-6, 1.45x1x0.55mm                                     | IC - Logic          | 3  |
| 5001244 | IC, LDO, 1.8V, 200mA, HIGH SPEED, SOT23-5, 3x1.6x1.3mm                                     | IC - Regulator      | 1  |
| 5001316 | IC, DUAL STEPDOWN CONVERTER, SYNCHRONOUS, 1A, 2.25MHz, ADJUSTABLE, DFN-10, 3x3x1mm         | IC - Regulator      | 1  |
| 5001367 | IC, VOLTAGE DETECTOR, 3V, RESET CONTROLLER, SOT23-5, 2.9x1.6x1.1mm                         | IC - Analog         | 1  |
| 5030600 | IND, 22nH, 5%, 200mA, 0402                                                                 | Inductor            | 2  |
| 5030606 | IND, 47nH, 5%, 200mA, 0402                                                                 | Inductor            | 1  |
| 5030691 | FERRITE BEAD, 220 OHM@100MHz, 2A, DCR=0.05 OHM, 0603                                       | Inductor            | 5  |
| 5030746 | CHOKE, COMMON MODE, 90 OHM@100MHz, 25%, 100mA, 1x1.25x0.67mm                               | Inductor            | 1  |
| 5040175 | LED, GREEN, TOP FIRE, SMT, 2.2V, 20mA, 0603                                                | Diode               | 1  |
| 5040240 | DIO, ESD PROTECTION, 3 LINES, 8/15kV, 0.5pF, DFN-6, 1.45x1x0.65mm                          | Diode               | 1  |
| 5200114 | SWITCH, DIP, 8-SPST, TOGGLE, 11.28x6.2x2.31mm                                              | Misc Electrical     | 1  |
| 5200134 | SWITCH, SPST, MOMENTARY, VERTICAL, 4.2x3.2x2.7mm                                           | Misc Electrical     | 1  |
| 5200146 | SWITCH, SPST, MOMENTARY, RIGHT-ANGLE, 3.9x2.9x1.55mm                                       | Misc Electrical     | 2  |
| 5302303 | PCB, MANGOH RED                                                                            | PCB                 | 1  |