



| Title | | |
|-------|----------------------------------|-----------|
| Size | Number | Revision |
| A3 | | |
| Date: | 13.02.2018 | Sheet of |
| File: | D:\altium\carambola2-Base.SchDoc | Drawn By: |

| Comment | Description | Designator | Footprint | LibRef | Quantity |
|--------------------|---|---|------------------------------|------------------------------|----------|
| 1u | MLCC Ceramic Capacitor | C1, C4 | CAPC0603 | CAP 0603 | 2 |
| 470n | MLCC Ceramic Capacitor | C2 | CAPC0603 | CAP 0603 | 1 |
| 100n | MLCC Ceramic Capacitor | C3, C6, C7, C8, C10, C11, C13, C14, C17 | CAPC0603 | CAP 0603 | 9 |
| 10u 16V | MLCC Ceramic Capacitor | C5, C18 | CAPC1206 | CAP 1206 | 2 |
| 10u 10V | MLCC Ceramic Capacitor | C9, C12 | CAPC0805 | CAP 0805 | 2 |
| 10p | MLCC Ceramic Capacitor | C15, C16 | CAPC0603 | CAP 0603 | 2 |
| BAT54C | BAT54C SOT-23 Plastic-Encapsulated Diode | D1 | SOT23-3 | BAT54C | 1 |
| FB_0805 | Ferrite Bead SMD | FB1, FB2, FB3, FB4 | FB_0805 | FB_0805 | 4 |
| PJ-036AH-SMT-TR | CONN PWR JACK 2X5.5MM SOLDER | J1 | PJ-036AH-SMT-TR | PJ-036AH-SMT-TR | 1 |
| WE-65100516121 | Mini USB 2.0 Type B SMT Horizontal 5 Contacts WR-COM | J2 | 65100516121 | WE-65100516121 | 1 |
| PHDR10SMD | Shrouded Pin Header SMD Vertical 10 pins 2.54mm | J3 | PHDR10SMD | PHDR10SMD | 1 |
| PHDR16SMD | Shrouded Pin Header SMD Vertical 16 pins 2.54mm | J4 | PHDR16SMD | PHDR16SMD | 1 |
| WE-74980111211 | WE-RJ45 LAN Transformer, 10/100 Base-T | J5, J6 | 74980111211 | WE-74980111211 | 2 |
| USB-A_SMD | USB 1.1, Right Angle, SMD, A Type, Receptacle, 4 Position | J7 | USB-A_SMD | USB-A_SMD | 1 |
| WE-744025003 | Shielded Tiny Power Inductor WE-TPC | L1 | WE-TPC_2828 | WE-TPC_2828_744025003 | 1 |
| LED 0805 | LED 0805 | LED1, LED2, LED3, LED4 | LED 0805 | LED 0805 | 4 |
| Carambola2 | Carambola2 Modul | MOD1 | 8DEV_0301_0002_28X38_FP | Carambola2 | 1 |
| IRLML5203TRPBF | P-Channel MOSFET | Q1 | SOT23-3 | IRLML5203TRPBF | 1 |
| BC848C | General Purpose Transistor, NPN Silicon, 3-Pin SOT-23 | Q2, Q3 | SOT23-3 | BC848C | 2 |
| 10k | Chip Resistor | R1, R6, R7, R8 | RESC0603 | R 0603 | 4 |
| 0R | Chip Resistor or Solder Jumper, fitted | R4, R5 | RESC0402_0R | 0R 0402 | 2 |
| 180k | Chip Resistor | R9 | RESC0603 | R 0603 | 1 |
| 562k | Chip Resistor | R10 | RESC0603 | R 0603 | 1 |
| 4k7 | Chip Resistor | R11, R12 | RESC0603 | R 0603 | 2 |
| 1k | Chip Resistor | R13, R14 | RESC0603 | R 0603 | 2 |
| 330R | Chip Resistor | R15, R16, R17, R18, R19, R20, R21, R22 | RESC0603 | R 0603 | 8 |
| TL3301AF160QG | Single-Pole, Single-Throw Switch | SW1, SW2 | TL3301AF160QG | TL3301AF160QG | 2 |
| MCP1703AT-3302E/CB | 250 mA, 16V, Low Quiescent Current LDO Regulator | U1 | SOT23-3 | MCP1703AT-3302E/CB | 1 |
| MCP2221A-I/SL | USB-UART Bridge | U2 | SOIC14N | MCP2221A-I/SL | 1 |
| 2450AT42A100 | Johanson 2.45 GHz Chip Antenna | U3 | CHIP_ANTENNA_2.4GHZ_JOHANSON | CHIP_ANTENNA_2.4GHZ_JOHANSON | 1 |
| TPS62160DGK | 3V-17V 1A Step-Down Converters with DCS-Control | U4 | TI-DGK-S-PDSO-G8 | TPS62160DGK | 1 |