|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | capacitor  0402  0.1uF | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | capacitor  0402  0.01uF | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | capacitor  0402  100pF |
| **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | capacitor  C147  0402  2.2nF | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | capacitor  C123, 131,138,151  0402  1nF | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | capacitor  C141  0402  68pF |
| **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | capacitor  C132, 134, 135  0402  56pF | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | capacitor  C164, 165  0402  47pF | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | capacitor  C149  0402  33pF |
| **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | capacitor  C94, 95, 152  0402  18pF | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | capacitor  C157, 158  0402  1.5pF | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | capacitor  0805  10uF |
| **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | capacitor  C113, C117  0805  22uF | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | capacitor  C54  1210  47uF  6 | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** |  |
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| **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | Ferrite bead  FB1~8  0603  1A | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | DC power connector  J1  6 | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | RJ45 connector  J2  2 |
| **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | SMA connector  J3, 4  12 | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | USB connector  J6  6 | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** |  |
| **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | Inductor  L1, 3, 4  0402  33nH | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | Inductor  L2  8.2uH | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** |  |
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| **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | Header  P5 | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** |  | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** |  |
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| **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | Resistor  0402  750 | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | Resistor  0402  3.3K | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | Resistor  0402  33 |
| **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | Resistor  R10, 68, 72, 73, 74, 75  0402  1.2K | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | Resistor  R3  0603  820 | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | Resistor  R4  0603  2.7K |
| **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | Resistor  R41  0603  5.2M | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | Switch  SW1, 2, 3, 4  24 | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | Switch  SW5  6 |
| **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | IC (SmartFusion)  U1  FPBGA-484  6 | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | IC (PSRAM)  U2  VFBGA-54  2 | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | IC (Flash)  U3  TSOP-56  2 |
| **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | IC (LDO)  U5  SOT23-5  1.8V  2 | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | IC (LDO)  U6  SOIC-8  1.5V  6 | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | IC (LDO)  U7  SOT23-5  2.85V  6 |
| **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | IC (voltage reference)  U8, 11  SOT23-3  1.25V  6 | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | IC (ADC)  U9  LQFP-48  6 | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | IC (DAC)  U12  QSOP-28  6 |
| **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | IC (Ethernet)  U13  LQFP-48  2 | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | IC (inverter)  U14  SOT23-5  2 | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | IC (RF)  U16  TQFN-48  6 |
| **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | RF Balun  U17, 18  12 | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | IC (USB -> UART)  U19  SSOP-28  6 | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** |  |
| **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | Crystal  Y1  20MHz  6 | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | Crystal  Y2  32.768KHz  6 | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | Crystal  Y3  50MHz  2 |
| **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** | Crystal  Y4  40MHz  6 | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** |  | **Type:**  **Designator:**  **Footprint:**  **Value:**  **Quantity:** |  |