RAB4-RTK BOM Rev.0

| Part Description | Cnocification | Volue | Designator | Eggtprint | Ougstite: | Monufacture | Manufacturar Dart Na | Quanti- | Cumplior part sure har |
|---|---------------------------------|---|--|----------------------------------|---------------|------------------------------|---|-----------|-------------------------------------|
| Part Description Ceramic Capacitor | Specification X5R, 6.3V, 10% | Value 1uF | Designator C1, C2, C7, C39 | Footprint C0402 | Quantity 4 | | Manufacturer Part No. CL05A105KQ5NNNC | | Supplier part number KKK18264 |
| Ceramic Capacitor | NP0, 50V, 5% | 33pF | | C0402 | 38 | AVX | 04025A330JAT2A | | KKK13594 |
| | 1/22 22/1/201 | | | | | 1 | | | |
| Ceramic Capacitor Ceramic Capacitor | X7R, 25V, 10% X7R, 50V, 10% | 4.7nF 100nF | C8 C13, C16, C18, C20, C23, C24, C28, C32, C36, C38, C40, C45, C46, C53, C56, C63, C64, C65, C66, C71, C72, C73, C74, C79, C80, C81, C82, C87, C88, C89, C90 | | 31 | Yageo | C0402C472K3RAC7867 CC0402KRX7R9BB104 | | KKK26721 KKK23619 |
| Niobium Oxide Capacitor | 6.3V, 20% | 47uF | C14 | Case-B | 1 | AVX | NOJB476M006RWJ | Putronik | KTA6684 |
| Ceramic Capacitor | X5R, 6.3V, 10% | | C15, C29, C33, C35, C37, C41, C62 | | 7 | Samsung EM | CL21A226KQQNNNG | | KKS2632 |
| Ceramic Capacitor | NP0, 50V, 5% | 100pF | C17, C19, C21, C25, C42 | | 5 | Yageo | CC0402JRNPO9BN101 | | KKK12260 |
| Polymer Electrolytic Capacitor | 6,3V 20% | 220uF | C26 | Case-B | 1 | KEMET | T520B227M006ATE070 | | KTA8521 |
| Ceramic Capacitor Tantalum Capacitor | X7R, 50V, 5% 6,3V 20% | 330pF 1000uFx6.3V | C34 C61 | C0402 7361-38 | 1 | Yageo AVX | CC0402KRX7R9BB331 TPSV108M006R0040 | | KKK15237 KTA6307 |
| Nano SIM Holder | 6 pins | 104224-0820 | CON1 | 104224-0820 | 1 | | 104224-0820 | | SIMCRD1016 |
| TVS Diode | 5V, 0.225kW | DFLT5V0A-7 | D1 | PowerDI123 | 1 | Diodes Inc. | DFLT5V0A-7 | Rutronik | DTRL9639 |
| TOPLED® E1608 | GREEN, 20mA | KGDELLS1.22-JGKH-24-0-2-S | | KG_DELLS_GREEN | 3 | OSRAM | KGDELLS1.22-JGKH-24-0-2-S | | LEDATV1791 |
| Small signal Schottky diode ESD Diode | 30V, 0.2A 0.15pF, 3.3V | BAT54WT-7 ESD150-B1-W0201 | D3, D4 D5 | SOD-523 SG-WLL-2 | 1 | | BAT54WT-7 ESD150B1W0201E6327XTSA1 | | DSKY5741 ESD150B1W0201E6327XTSA1 |
| High I²t Chip fuse | 32V, 2A | CC12H2A-TR | F1, F2 | FUSE1206 | 2 | EATON | CC12H2A-TR | | FUSE10755 |
| Inductor | 5%, 180mA | 68nH | L1, L2 | L0402 | 2 | MuRata | LQG15HN68NJ02D | | IND10329 |
| Ferrite Bead | 120R, 2A | BLM18PG121SH1D | L3 | L0603 | 1 | muRata | BLM18PG121SH1D | | FE3867 |
| Arduino Connector USB C DUAL SMT ON BOARD | | RS1-A5-10-G-SGM394-HT DX07S016JA1R1500 | P1 P2 | HDR1X10_ARDUINC DX07S016JA1R1500 | | Adam Tech JAE | RS1-A5-10-G-SGM394-HT DX07S016JA1R1500 | | RS1-A5-10-G-SGM394-HT CONN3002 |
| Arduino Connector | | RS1-A5-08-G-SGM394-HT | P3, P5 | HDR1X8_ARDUINO | | | RS1-A5-08-G-SGM394-HT | | RS1-A5-08-G-SGM394-HT |
| Arduino Connector | 6 pos. 2,54mm | RS1-A5-06-G-SGM394-HT | P4 | HDR1X6_ARDUINO | 1 | | RS1-A5-06-G-SGM394-HT | | RS1-A5-06-G-SGM394-HT |
| SMA Connector N-Channel MOSFET | Fermale 20V, 0.63A | 73391-0083 DMG1012T-7 | P6, P7, P8, P9 Q1, Q2, Q3, Q4, Q5, | 73391-0083 | 4 | molex Diodes Inc. | 73391-0083 DMG1012T-7 | | 73391-0083 TMOSS6623 |
| N-Ghanner Wool E1 | 200, 0.03A | DIVIG 10121-7 | Q6, Q7 | 301-323_custom | ' | blodes inc. | DING 10121-7 | IXULIOTIK | 1100330023 |
| Thick Film Resistor | 5% 0,063W | 1K | R1, R7, R21 | R0402 | 3 | Yageo | RC0402JR-071KL | | WRC33833 |
| Thick Film Resistor | 5% 0,063W | 5.1K 10K | R2, R3 | R0402 | 2 | ASJ ASJ | CR10-512-JK | | WRC54946 |
| Thick Film Resistor | 5% 0,063W | TUK | R4, R6, R8, R9, R10, R36, R37 | R0402 | ' | ASJ | CR10-103-JK | Rutronik | WRC40976 |
| Thick Film Resistor | 5% 0,063W | 1M | R5 | R0402 | 1 | ASJ | CR10-105-JK | Rutronik | WRC35254 |
| Thick Film Resistor | 1% 0,063W | 75K | R12 | R0402 | 1 | ASJ | CR10-7502-FK | | WRC50183 |
| Thick Film Resistor | 1% 0,063W | 49.9K | R13, R15, R18, R19, R23 | R0402 | 5 | Yageo | RC0402FR-0749K9L | Rutronik | WRC34049 |
| Thick Film Resistor | 1% 0,063W | 150K | R14 | R0402 | 1 | Yageo | RC0402FR-07150KL | Rutronik | WRC34764 |
| Thick Film Resistor | 1% 0,063W | 20K | R16 | R0402 | 1 | ASJ | CR10-2002-FN | | WRC53526 |
| Thick Film Resistor Thick Film Resistor | 1% 0,063W 5% 0,063W | 470K 0R | R17 R26, R27, R30, R33 | R0402 R0402 | 1 | Yageo Yageo | RC0402FR-07470KL RC0402JR-070RL | | WRC34703 WRC34031 |
| Low Capacitance Multilayer Varistor | 18V, 4A, 15mJ | USB0002DP | RV1 | USB0002 | 1 | AVX | USB0002DP | | WVDR3535 |
| Tactile Button | 1N, Straight , 20n | | S1, S2 | EVQPUA | 2 | | EVPAA002K | | SWITCH11516 |
| Thick Film Resistor | 5% 0,063W | 0R | SB1, SB2, SB4, SB5, SB6, SB7, SB8, SB9, SB10, SB11, SB12, SB13, SB14, SB15, SB16, SB17, SB18, SB19, SB20, SB21, SB22, SB23, SB24, SB25 | SB_0402 | 24 | Yageo | RC0402JR-070RL | Rutronik | WRC34031 |
| VERTICAL MOUNT SMT - J BEND | 6V DC, 0.3A | JS202011JCQN | SW1 | JS202011JCQN | 1 | C&K | JS202011JCQN | | SWITCH10809 |
| SMT Test Point | 3.81*2.03 | P/N5019 | TP1 | 5019_keystone | 1 | Keystone Electron | | | BAT4950 |
| LTE C1 THREADX GNSS with 2G/3G Fallback RTK GNSS All-constellation Multi-frequency | LTE C1, 2G, 3G 3.3V, 180mA | LE910C1WX03T037100 UM980 | U1 U2 | XCVR_LE910C1WX0 | 11 1 | Telit Cinterion UNICORE COMM | LE910C1WX03T037100 | | GSM2137 GPS1468 |
| 2.0A Inductor Built-in Step-Down DC/DC Converter | 6V, 2A | MYRGM080200X41RA | U3 | MYRGM080200 | 1 | | MYRGM080200X41RA | | MYRGM080200X41RA |
| Inductor Built-in Step-Down "mini DC/DC" Converter | 6V, 600mA | MYRGP080060W21RF | U4 | MYRGP080060 | 1 | MuRata | MYRGP080060W21RF | Rutronik | MYRGP080060W21RF |
| Load Switch IC with Over current limited function Single Bit Voltage Level Translator | 0.4A, 5.5V 5.5V, 1.65V | TCK22946G,LF 74LVC1T45FZ4-7 | U5 U6, U8, U9, U10, | WCSP6E X2-DFN1410-6 | 9 | TOSHIBA Diodes Inc. | TCK22946G,LF 74LVC1T45FZ4-7 | | ICGDRV1398 ICLOG10841 |
| 150mA Ultra-Low Quiescent Current LDO with Enable | 3.3V, 150mA | AP7354-33FS4-7 | U11, U12, U13, U14, U15 U7 | X2-DFN1010-4 | 1 | Diodes Inc. | AP7354-33FS4-7 | Rutronik | ICSPR10461 |
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