





























sEHnsor_bom.xlsx

| Qty | Value | Device | Package |
|-----|--------------------------------|--------------------------------|---------------------------------|
| 1 | FRACTUS-2.4GHZ-FR05-S1-N-0-001 | FRACTUS-2.4GHZ-FR05-S1-N-0-001 | FRACTUS-ANTENNA-FR05-S1-N-0-001 |
| 1 | 2450BM15A0002 | 2450BM15A0002 | 2450BM |
| 2 | 12pF | CAPACITOR | 0402_CAP |
| 1 | 220pF | CAPACITOR | 0402_CAP |
| 1 | 1nF | CAPACITOR | 0402_CAP |
| 8 | 0.1uF | CAPACITOR | 0402_CAP |
| 3 | 1uF | CAPACITOR | 0402_CAP |
| 1 | 2.2uF | CAPACITOR | 0402_CAP |
| 1 | GECKO_POWER_SUPPLY_CONN | GECKO_POWER_SUPPLY_CONN | HEADER1X6/0.05IN |
| 1 | TC2030-CTX-NL | TC2030-CTX-NL | TC2030-IDC-NL |
| 1 | MOSFET-NCHANNELXFDN-3 | MOSFET-NCHANNELXFDN-3 | XFDN-3 |
| 2 | 2.2k | RESISTOR | 0402_RES |
| 3 | 4.7k | RESISTOR | 0402_RES |
| 1 | 56k | RESISTOR | 0402_RES |
| 1 | 4.7M | RESISTOR | 0402_RES |
| 1 | DS2411 | DS2411 | SOT-23 |
| 1 | FM25LBTDFN-8 | FM25LBTDFN-8 | TDFN-8 |
| 1 | CC2538 | CC2538 | S-PVQFN-N56 |
| 1 | EPSON-FA-128 | EPSON-FA-128 | FA-128 |

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| Parts | Description | DIGIKEY |
|-----------------------------------|--|----------------------|
| A1 | Fractus Reach Xtend | |
| B1 | BALUN JTI MATCHED ZIGBEE | 712-1536-1-ND |
| C1, C2 | 0402 Capacitor | |
| C3 | 0402 Capacitor | |
| C4 | 0402 Capacitor | |
| C5, C6, C7, C8, C9, C10, C11, C12 | 0402 Capacitor | |
| C13, C14, C15 | 0402 Capacitor | |
| C18 | 0402 Capacitor | |
| J1 | Header on the gecko power supply board. | |
| J2 | Tag Connect footprint for ARM JTAG. | |
| Q1 | Generic NMOS footprint | DMN2400UFB4-7DICT-ND |
| R1, R2 | Resistor | |
| R3, R4, R5 | Resistor | |
| R6 | Resistor | |
| R7 | Resistor | |
| U1 | Maxim DS2411 | DS2411R+CT-ND |
| U2 | IC FRAM 4KBIT 10MHZ 8SOIC | FM25L04B-DGRA-ND |
| U3 | A Powerful System-On-Chip for 2.4-GHz IEEE 802.15.4, 6LoWPAN | 296-35797-1-ND |
| X1 | MHz RANGE CRYSTAL UNIT | |

| MOUSER | NEWARK | RICHARDSON_RFPD |
|--------|--------|-----------------|
| | | FR05-S1-N-0001B |

877-FM25L04B-DG
595-CC2538SF53RTQT 87W7713