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| --- | --- | --- | --- | --- |
| Parts List | | | | |
|  | **Parts** | **Qty.** | **Schematic** | **Tape** |
| MCU | ATMEGA128RFA1 | 1 | U1 | On Package |
|  | Cap. 0.1uF | 1 | C9 |  |
|  | Cap. 1uF | 4 | C5 C6 C7 C8 |  |
|  | Cap. 0.75pF | 1 | C2 |  |
|  | Cap. 12pF | 2 | C3 C4 |  |
|  | Cap. 22pF | 1 | C1 |  |
|  | Antenna | 1 | A |  |
|  | Balun | 1 | B1 | On Package |
|  | Crystal | 1 | Y1 |  |
|  | Switch | 1 | SW1 | On Package |
|  | R 10k ohm | 1 | R1 |  |
|  | FTDI 6 Pin Jumper | 1 | JP1 | On Package |
|  | AVR 6 pin | 1 | J1 | On Package |
| IMU | LSM9DS1 | 1 | U2 | On Package |
|  | Cap. 0.01uF | 1 | C13 |  |
|  | Cap. 0.1uF | 3 | C10 C12 C14 |  |
|  | Cap. 10uF | 1 | C11 |  |
|  | R 10k ohm | 2 | R2 R3 |  |
| Power Supply | Regulator | 1 | REG | On Package |
|  | Cap. 1uF | 2 | C15 C16 |  |
|  | 2 pin Jumper | 1 | J2 | On Package |
| Motors | MOSFET | 4 | Q1 Q2 Q3 Q4 |  |
|  | Cap. 0.1uF | 4 | C21 C22 C23 C24 |  |
|  | Cap. 220uF | 4 | C17 C18 C19 C20 |  |
|  | Diode | 4 | D1 D2 D3 D4 |  |
|  | R 100 ohm | 4 | R4 R6 R8 R10 |  |
|  | R 10k ohm | 4 | R5 R7 R9 R11 |  |
| Debugger | 10 pin Jumper | 1 | J3 | On Package |
| LEDs | LED | 2 | D5 D6 D7 | On Package |
|  | R 100 ohm | 3 | R12 R13 R14 |  |