Pins

|  |  |  |
| --- | --- | --- |
| SBUS\_RX | 7 | Channel data from receiver |
| S.PORT | 6 | Telemetry to transmitter |
| SBUS\_TX (not used) | 5 | Backup SBUS from 2nd Rx |
|  |  |  |
| MOTOR\_SDA | 23 | 1MHz I2C for 2 motor drivers 0x40, 0x41 |
| MOTOR\_SCL | 22 |  |
|  |  |  |
| ENCODER1 | 8 | PWM SRX through bore encoder |
| ENCODER2 | 9 |  |
| ENCODER3 | 10 |  |
| ENCODER4 | 11 |  |
|  |  |  |
| QUADRATURE 1A | 15 | Encoder on drive motors |
| QUADRATURE 1B | 14 |  |
| QUADRATURE 2A | 3 |  |
| QUADRATURE 2B | 2 |  |
| QUADRATURE 3A | 13 |  |
| QUADRATURE 3B | 12 |  |
| QUADRATURE 4A | 1 |  |
| QUADRATURE 5B | 0 |  |
|  |  |  |
| PMW CS | 19 | Pmw3901 optical flow sensor, SPI |
| PMW SCK | 18 |  |
| PMW SDO | 17 |  |
| PMW SDI | 16 |  |
|  |  |  |
| USFSMAX SDA | 21 | 3.4MHz I2C for IMU 0x57 |
| USFSMAX SCL | 20 |  |
| USFSMAX RESET | -1 | Not used |
|  |  |  |
| BATTERY ANALOG | 31 | ADC, resistor divider 8K2+3K |
|  |  |  |
| TEMP1 ANALOG | 26 | TMP36 temperature sensors on ADC |
| TEMP2 ANALOG | 27 |  |
| TEMP3 ANALOG | 28 |  |
| TEMP4 ANALOG | 29 |  |
|  |  |  |
| GPS SDA | 24 | 1.5MHz I2C 0x10 |
| GPS SCL | 25 |  |
|  |  |  |
| SPARE1 | 30 |  |
| SPARE2 | 4 |  |
|  |  |  |
| WIFI\_RES | 56 | WIFI connection for programming/debug |
| WIFI\_PGM | 57 |  |
| DEBUG\_TX/WIFI\_DI | 62 |  |
| DEBUG\_RX/WIFI\_DO | 63 |  |
|  |  |  |
| SD SDO | 58 |  |
| SD SDI | 59 |  |
| SD CS | 60 |  |
| SD CLK | 61 |  |