Pinouts:

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ADC:

|  |  |  |
| --- | --- | --- |
| Pin | PinName | Reading | Notes |
| 77 | P6.0/A0 | VBAT | Lithium battery voltage |
| 80 | P6.3/A3 | SENSOR\_OUT | Flow sensor output |

Digital:

|  |  |  |
| --- | --- | --- |
| Pin | PinName | I/O | Notes |
| 53 | P4.6 \* | I: CHG\_STAT | Status of battery charger |
| 60 | P7.7 | O: COMMS\_SS | TRF7970 SS |
| 55 | P5.6 | O: MEM\_SS | RM25C256C memory SS |
| 44 | P3.7 | O: COMMS\_EN | Enable pin for TRF7970 |
| 43 | P3.6 | O: TEMP\_SS | AD8370 temp. sensor SS |
| 42 | P3.5 | O: BRIDGE\_VCC | Provides power to sensor bridge |
| 21 | P1.0 \*\* | I: COMMS\_IRQ | TRF7970 Interrupt Request |

\*Datasheet for charger kinda confused me. This may or may not work

\*\*Datasheet says P1.x and P2.x are configurable for interrupts

LED diagnostics:

|  |  |
| --- | --- |
| Pin | PinName | Color |
| 72 | PJ.0 | Red |
| 73 | PJ.1 | Green-ish |
| 74 | PJ.2 | Blue |

Oscillators:

|  |  |  |
| --- | --- | --- |
| Pin | PinName | Frequency | Notes |
| 69 | XT2IN | 4MHz | 47pF load cap |
| 70 | XT2OUT | 4MHz | 47pF load cap |
| 12 | XIN | 32.768kHz | Configurable internal caps |
| 13 | XOUT | 32.768kHz | Configurable internal caps |

Communications:

|  |  |  |
| --- | --- | --- |
| Pin | PinName | Function | Notes |
| 76 | RST/NMI/SBWTDIO | Programming | 2.2nF cap and 47k resistor |
| 71 | SBWTCK | Programming |  |
| 46 | P4.1/PM\_UCB1SIMO | MOSI |  |
| 47 | P4.2/PM\_UCB1SOMI | MISO |  |
| 48 | P4.3/PM\_UCB1CLK | SCK |  |
| 41 | P3.4/UCA0RXD | RX |  |
| 40 | P3.3/UCA0TXD | TX |  |