

Battery calculation

NiCad 1500mAh
80% Capacity 1200mAh

TIVA

5 output pins + 6 input pins

max total current 40+35mA This value is overshoot. Using the maximum current for TIVA GPIOs.

component	Steering Pot	2N3904 Collector	IRFU LED driver	Xbee	Accel+Gyro MPU6050
nominal voltage	3.3V	5V-0.25	5V	3.3V	3.3V
max current	0.33mA	4.75mA	20mA	50mA	3.8 mA
power	1mW	22.5mW			

Grand total current 153.88

Guaranteed hours 7.798284377