# Pocket Beagle Cape Requirements

## Jacob Huesman

November 17, 2017

#### Abstract

The requirements document for the new senior design node cape.

## 1 Power Requirements

## 1.1 Pocket Beagle

Should be the same as the BeagleBone Black. Minimum recommended is 5V @ 1.2A, recommended is 5V @ 2A, which includes room for USB peripherals. See: http://beagleboard.org/support/faq

The actual usage by the BeagleBone Black measured during a test done by Adafruit saw current usage of less than 500mA. Which makes sense since it can operate as a USB device. See: https://learn.adafruit.com/embedded-linux-board-comparison/power-usage. It might actually be lower since there everything is integrated on the pocket beagle.

## 1.2 ELP VGA USB Camera Module

According to the specs available on Amazon this camera doesn't exceed 160mA of power usage. See: https://www.amazon.com/gp/product/B01DRG250Q/ref=oh\_aui\_search\_detailpage?ie=UTF8&psc=1. Since they are USB Devices we can expect no more than 5V @ 500mA.