1. **After the Blue Gecko has been reset or after power up, what energy mode is the Blue Gecko running in?**

EM3

**a. What is the average current when the LEDs are off?**

157.41uA

1. **Place the BMA280 in Normal mode by pressing the joy stick North. What energy mode is the Blue Gecko running in?**

EM3

**a. What is the average current when the LEDs are off?**

286uA

1. **Single tape the BMA280 to enable, load power management ON, the Si7021. What energy mode is the Blue Gecko running in?**

EM3

**a. What is the Energy Score?**

3.8

* 1. **b. What is the average current while the LEDs are off and the Si7021 is not taking measurement?**
  2. 287.87uA
  3. **c. What is the average current while the LEDs are off and the Si7021 is taking a measurement?**
  4. 292.77uA
  5. **d. How long does the Si7021 require to take a measurement?**
  6. 7.94ms
  7. **e. How does the Si7021 measurement time compare to the datasheet?**
  8. 7-10.8ms

1. **Suspend the BMA280 by pressing the joy stick south. What energy mode is the Blue Gecko running in?**

EM3

**a. What is the Energy Score?**

3.6

**b. What is the average current while the LEDs are off and the Si7021 is not taking a measurement and not in the LETIMER interrupt handler?**

151.51uA

**c. What is the average current while the LEDs are off and the Si7021 is taking a measurement?**

301.08uA

**d. What is the current required by the Si7021 while not taking a measurement?**

Approximately 152uA is required.

**e. How does this compare to the Si7021 datasheet?**

06-3.8uA

**f. What is the current required by the Si7021 while taking a measurement?**

152.54uA

**g. How does this compare to the Si7021 datasheet?**

150-180uA

1. **What temperature is the Si7021 measuring? You will need to be viewing the variable in the debugger.**

30 0 C

1. **a. How many pushes to the right, increasing the set point is required for LED1 to turn on?**

3

**b. After pushing the joy stick button down, does LED1 turn off and then turn on at the next measurement?**

yes

**c. How many pushes to the left, decreasing the set point is required for LED1 to remain off after LED1 has been reset?**

1