LOW POWER EMBEDDED DESIGN
PROJECT UPDATE #10

Team Name: WearTech

Team Mates:

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Executive Summary:

Part Selection

Battery	**GMB401215-45mAh**
PMU IC	**LT1965**
Processor	**EFR32BG13– f1024**
Inductive Charging IC	**BQ5103B**
Battery Charger IC	**BQ24040**
Sensor	**BMA280**

As discussed, our project requires 2 Blue Gecko dev kits to act as devices in the mesh network.

On Schedule: Yes

Accomplishments:

- Completed Layout reviews
- Ordered the components and Board
- Continue to work on firmware

Next week:

- Place components
- Test Inductive charging
- Test the board connectivity for all the signals

What is the max current of your energy harvesting source?

BQ51013B has an

- **inductive charging : the max current from the coil can be 1A**
- **USB : the max current from the USB is 1A**

What is the max current that the PMU circuit can handle from the Energy Harvester?

The MAX current the BQ24040 (Battery Charger) & BQ51013B (Inductive charging) can handle is 1.245A

Does the Energy Harvester input require current limiting circuit?

No, it is always within the limits