Door Alarm

Steak Electronics

1 Attiny Solar Energy Harvest Tests

I have the following:

- Solar panels

- Attiny 10

To this list, I will add a supercap, and an energy harvesting IC. The goal being to load the super cap during the day, and to run 24/7. I will need an exceptionally low power micro. The super cap will need to be about 3.3V or 5V.

1.1 Micro Considerations

The Arduino Atmega328P is not an option. I'm looking to have a current draw of only 1mA max, (ideally 500uA) when active. Moteino is also not an option for this. Those are made for batteries. I want to be battery free. A super cap, however can be used to store energy. I'll get to that shortly.

For micros, I have some Attiny10 on hand, and these have a reasonably low power pull in active mode. Let's build those up first. What will the micro do? No idea. I haven't a clue.

1.2 Energy Storage

I don't want a battery. Let's go with a super cap. The solar panels will only be active some of the time, so I will want to harvest energy

with some kind of IC into the cap when the sun is out.[1]

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[1]Reference: www.analog.com/media/en/technical-documentation/technical-articles/solarenergyharvesting.pdf is a start. I'll need to do more research.