**CubeSat Power Management System**

Systems:

* Power Management Board

P31us (Gomspace)

* General Features:
* Optimized for 7 solar cells in series (or 4-solar cell string panels)
* 2 regulated power buses: [3.3V@5A](mailto:3.3V@5A) and 5V@4A (selectable)
* Uses 4-battery string power pack (12-16.8 V battery)
* MPPT microcontroller capabilities:

Measures/Logs:

* Four Temperatures
* Current into and out of photovoltaic power converters. (power in and out of solar panels).
* Battery voltage
* Photovoltaic input voltage for each input converter
* Total voltage into the output bus converter
* Current out of all power output channels.
* Number of *latch-up* event detected for each power output channel.

Enabled User Controls:

* Switching on/off state of bus outputs
* switch on/off MPPT
* set/read parameters

(should all be parameters that need to be communicated to the flight computer).

* Batteries
* Solar Panels