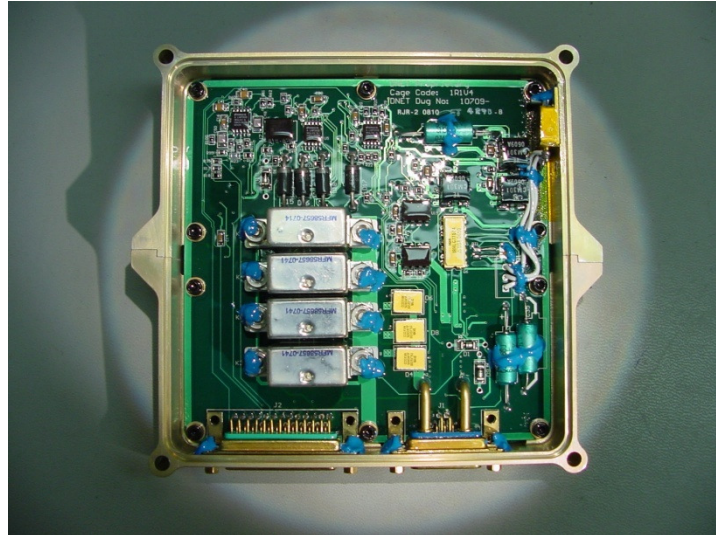




Shunt Array Controller (SAC)

Flexible Solar Array Management for SmallSats



Integrated Solution for PnP Spacecraft Power

The SAC is a generic power subsystem module capable of interfacing to a variety of solar array technologies and configurations. The unit is compatible with PnP standards as well as traditional communication interfaces. The SAC provides unregulated power to the spacecraft bus via switched strings with an option for fine control using PWM circuitry. The SAC may be used in conjunction with DNet's Energy Storage Module (ESM) to provide a fully distributed spacecraft power management solution for a broad range of SmallSat missions.

Features

Stackable, extensible design

Board slices can provide support for solar array strings in multiples of 6

Handles up to 18Amps solar array current (3A per string group)

Compact 6.3" x 6.3" x 3.5" form factor

Additional board may be added to provide support for load shedding

Local microprocessor logic allows "setpoint" control of array output in either voltage or current modes

Modular interface card can be selected for Spacewire or RS-422 communications

Contact Information

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