

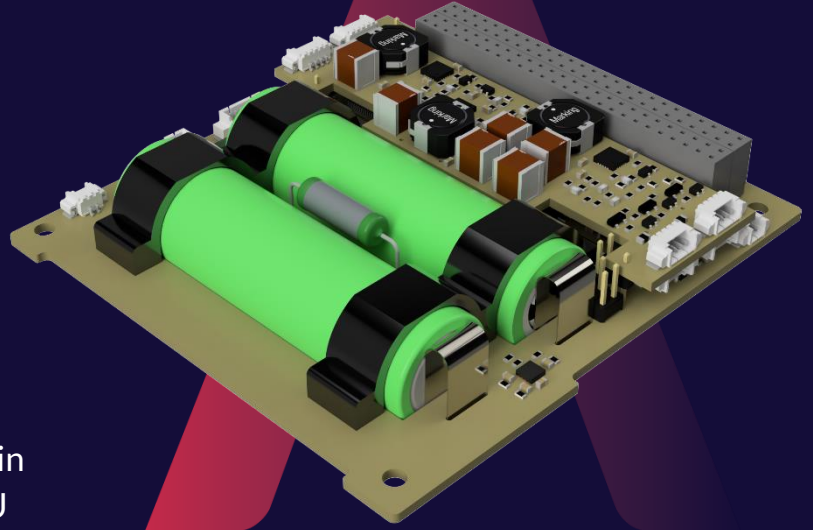


SPACEMANIC

AMUN Power Supply Unit

SM-PSU-AMUN

Power supply unit for small satellites in PC/104 form factor. Suitable for 1-3U CubeSat size satellites.



FEATURES

- Plug&Play Design
- Compatible with Spacemanic CubeSat standard
- Compatible with CubeSat components from other vendors
- Robust design
- CubeSat Space Protocol compatible

PRODUCT PROPERTIES

- Operating temperature: -40 °C to +85 °C
- PC/104 form factor
- Mass: 200g
- 3 x MPPT channel
- 2 x regulated power bus (5V, 3.3V)
- 6 x power output (5V, 3.3, 4 selectable)
- Onboard battery pack
- Onboard battery heating and thermal control

FUNCTIONAL CHARACTERISTICS

- Battery capacity: 20Wh
- Battery voltage: typ. 8V
- Solar input power capacity: 30W
- 6 x solar panel connectors
- 6 x user controllable outputs with overcurrent protection, 4 selectable between 5V/3.3V

INTERFACES

- 1 x I2C
- 1 x RS485
- 2 x UART
- 1x CAN
- External reset input
- 6 x solar panel input

SOFTWARE

- Cubesat Space Protocol / I2C communication

TESTING & HERITAGE

- Based on Flight Heritage Hardware
- Successful vibration & heated vacuum tests
- Radiation tests (TID @ 20 krad, SEE @ 60 MeV)