A Configurable, Modular and Scalable CSD-Compatible 6U Nanosatellite Bus

Andrew Kalman & Shaun Houlihan • PUMPKIN, Inc.

SUPERNova™ Block III
bus shown deploying from
Planetary Systems Corporation’s
6U Containerized Satellite
Dispenser

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- SUPERNOVA™’s high degree of symmetry provides support for many different bus, payload and external configurations.

- Optimized for stiffness and light weight, the SUPERNOVA™ structure has been modeled, analyzed and tested extensively at AFIT. Its first-mode natural frequencies range from 200Hz to 400Hz (260-350Hz @ 7.5kg, min. 197Hz @12kg).

- SUPERNOVA™ can accommodate payloads internal payloads in 1U, 2U (1x2 or 2x1), 3U (1x3) or 4U (2x2 or L-shaped 1x4) sizes. Various interconnect schemes are supported.

- SUPERNOVA™’s internal grid layout of six 100x100x100mm unit cells in any orientation and twenty-two external port covers enable end-users to easily incorporate existing COTS CubeSat-class components as well as other nanosatellite subsystems currently under development.

- SUPERNOVA™ buses are available with a single, resettable release mechanism for solar panels and antennas.

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