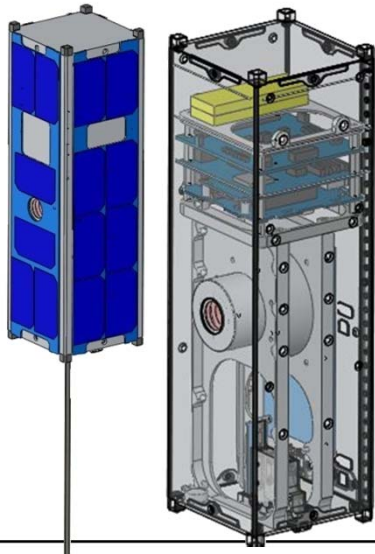




JOHN F. KENNEDY SPACE CENTER

Colorado Student Space Weather Experiment (CSSWE)



Mission Description

The CubeSat is supported by the National Science Foundation and will measure the directional differential flux of Solar Energetic Protons (SEPs) and earth's radiation belt electrons, to investigate the acceleration mechanisms of the radiation belt electrons and to understand the relationships between SEPs, flares, and coronal mass ejections (CMEs).

Communications

- Half duplex at 437.345 MHz
- GMSK 9K6, 15kHz bandwidth
- Kenwood TS-2000 ground radio
- AstroDev Lithium satellite radio

Mission Lifetime 11 months

Spacecraft Specifications

- Mass: 3480 g
- Power: 5620 mW
- Orbit: 472 km x 777 km
- Size: 3U (10cm x 10cm x 30cm)

Status

- Cubesat delivered to launch provider January 9, 2012
- Expected launch mid July 2012