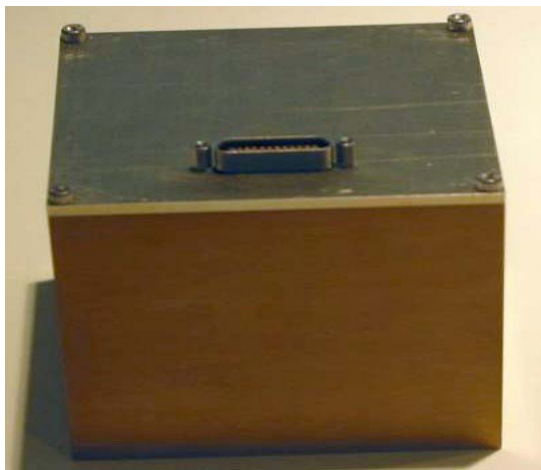


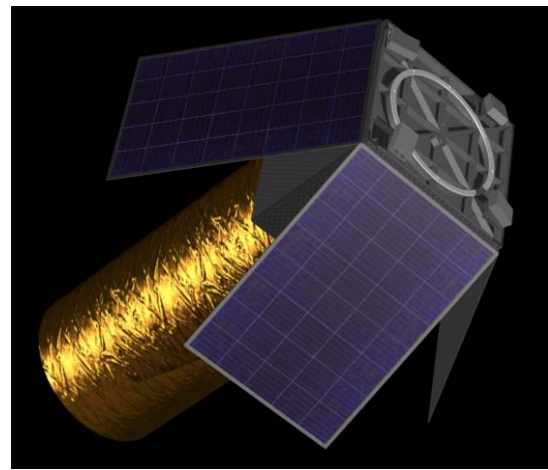


IMI-201 Miniature 3-Axis Reaction Wheel Product Specification (6-19-2008)

The IMI-201 is a 3-axis Miniature Reaction Wheel (MRW) in a hermetically sealed 3" x 3" x 2.75" enclosure. It is suitable for up to about 40lbs Nanosatellite applications requiring precise 3-axis pointing such as is required for Earth imaging or Celestial pointing. In the same family of products are the IMI-100/101 systems for CubeSat spacecraft. The IMI-201 achieves higher momentum storage capacity through the use of high speed motors.



IMI-201



Typical Nanosat Application

Torque and momentum storage have been sized for a micro spacecraft in a high agility application. For example, the IMI-201 can slew a 20 kg Earth imaging spacecraft to rapidly retarget between successive aim points, each located $\pm 30^\circ$ off track.

IMI-201 Specifications

Momentum Storage	10.8 mNms
Maximum Torque	2.23 mNm
Command and TLM	RS-232
Dimensions	3" x 3" x 2.75" (24.75 in³)
Weight	1.41 lb (640 gm)
Operating Temperature	-40C to +80C
Vibration	> 10 g rms
Radiation	30 krad
Power Supply	12 vdc @ 360 ma

