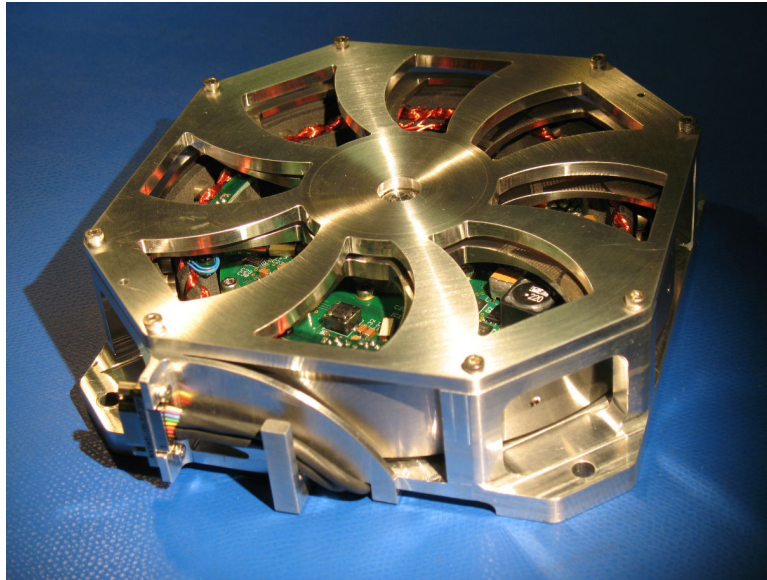
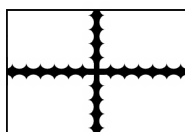


Microsatellite Reaction Wheels (RW-1.0-28)



Nominal Momentum	1.0 Nm-sec @ 6000 RPM
Nominal Torque	100 mNm over full momentum range
Control Mode	Speed or Torque, built-in control CPU
Command / Telemetry	Two RS-485, plus two CAN, ± 36 V fault tolerant
Mechanical	150 mm x 140 mm x 42 mm, 0.97 kg mass
Supply Voltage	24 V to 34 V nominal, redundant, reverse polarity protected
Environment	-40°C to +70°C operating temperature >16 krad radiation dose
Reliability	Diamond coated hybrid ball bearings Redundant motor windings and Hall-effect sensors Optional redundant electronics strings Radiation lot-screened parts
Availability	Flight units available November 2012



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