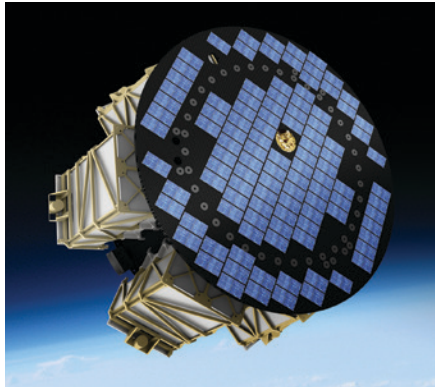


SL-OMV

SMALL LAUNCH ORBITAL MANEUVERING VEHICLE

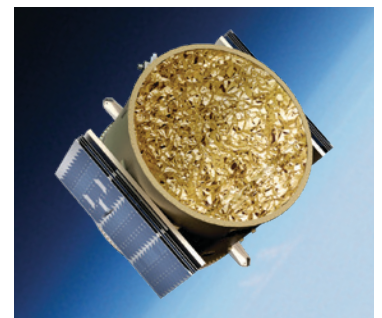
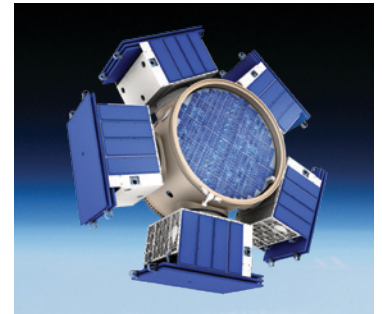
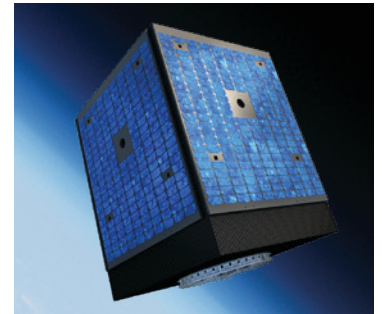


SL-OMV is a Propulsive Tug product family used for a variety of CubeSat missions in LEO. SL-OMV is ideal for rideshare/multi-manifest or other disaggregated mission types. SL-OMV leverages the same core avionics from Moog's Space Vehicle family that have been demonstrated in missions from LEO to the Moon. The green propellant propulsion system provides enough capability for several different missions including deploying CubeSats in multiple

orbits. The simple and robust carbon fiber composite structure is mass optimized for small launch vehicles. SL-OMV can be used as a hosted payload platform further expanding the mission types.

KEY FEATURES

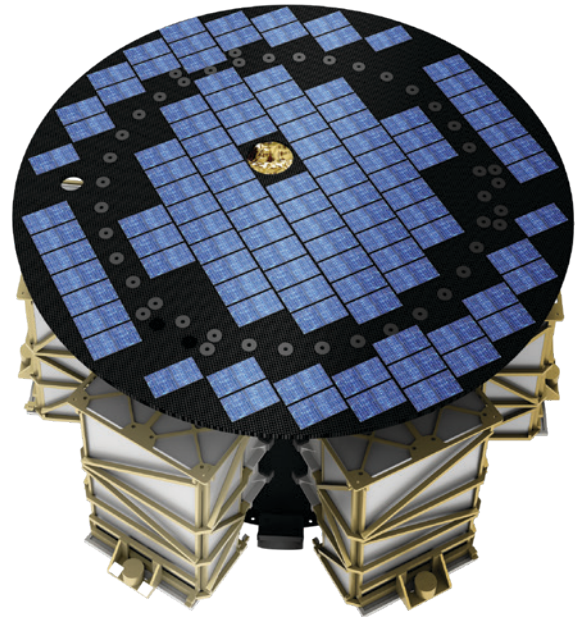
- Avionics leveraging Moog's BRE440™ Rad-Hard CPU
- LEO missions
- Flexible flight software is payload and mission configurable
- Green propellant propulsion system
- Single string butlayered GNC sensor suite provides resiliency
- Designed for Venture Class Launch Vehicles



SMALL LAUNCH ORBITAL MANEUVERING VEHICLE

SPECIFICATIONS

Characteristic	Performance / interfaces
Orbit	400 to 700 km
Orbital Range	< 1 years (based on propellant usage)
Mission Life	70 kg Bus Dry Mass
Bus Mass	72 kg
Bus Volume	Ø40" x 25" Tall with Ø24" launch vehicle interface
Orbital Position Knowledge	<5 m
Pointing Accuracy	+/- 1 deg for deployments, +/- 10 deg for Sun Pointing
Velocity Accuracy	0.1 m/s
Delta-V	Up to 200 m/s (varies with mission)
Payload Interfaces (Mechanical)	6x 6U CubeSats - Containerized 6x12U CubeSats – No Container
Payload Mass	6x 12 kg (+ 3.4 kg per Container)



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Form 500-1152 0623