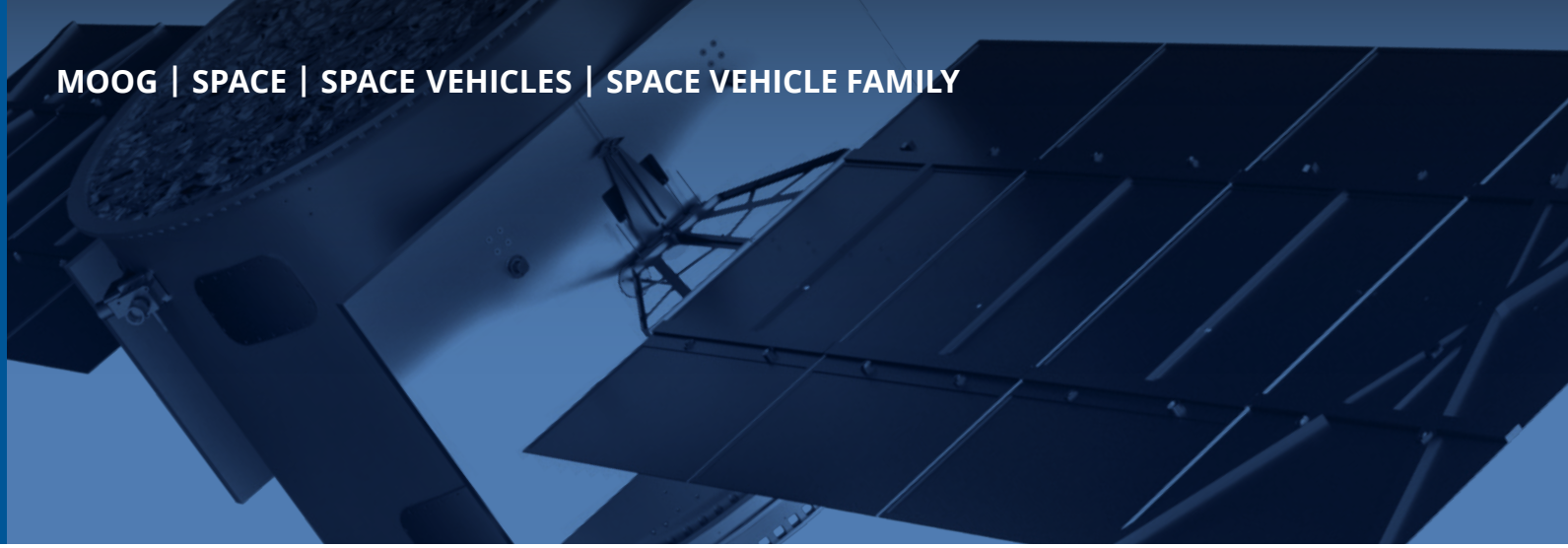
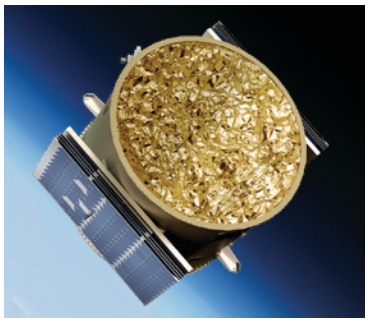


MOOG SPACE VEHICLE FAMILY

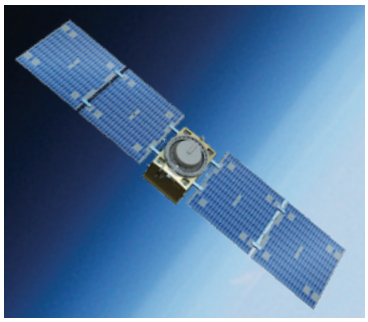
ROBUST, ADAPTABLE SATELLITE SOLUTIONS FOR EVERY ORBIT AND MISSION

Moog offers a variety of satellite bus solutions that can meet the needs of any payload or launch, including national security space missions. Our satellite buses are designed for VCLV and NSSL-class launch vehicles and leverage our flight-proven technology and heritage in spacecraft avionics, flight software, propulsion, and structures that have demonstrated success from low Earth orbit (LEO) through geosynchronous orbit (GEO), as well as in lunar and deep space missions. Our buses are modular platforms that are configurable for both short durations and multi-year missions that operate in a wide range of orbits and transfer capabilities. The overall structure is optimized for a wide range of payloads and launch configurations and is easily tailored for different mounting requirements.



METEOR

METEOR is an all-orbit capable ESPA-Grande class satellite bus used for a variety of missions and flight profiles. METEOR is ideal for pathfinder constellation missions or other disaggregated mission types. METEOR leverages the same core avionics from Moog's Space Vehicle family that have been demonstrated in missions from LEO to the Moon. The hydrazine propulsion system provides high thrust for collision avoidance or other rapid orbit changes. The simple and robust all aluminum structure derived from Moog's ESPA provides radiation shielding and can support a range of payload configurations.



METEORITE

METEORITE is a flight-proven ESPA class satellite bus used for a variety of missions in LEO including High LEO (1000 to 1200 km). It can be modified for missions in GEO and beyond. METEORITE is ideal for pathfinder constellation missions or other disaggregated mission types. METEORITE leverages the same core avionics from Moog's Space Vehicle family that have been demonstrated in missions from LEO to the Moon. The bus can support hydrazine or green propulsion systems. This configuration is ideal for rideshare or dedicated small launch vehicle missions and provides enough capability for deorbit from High LEO. The relatively high thrust can be used for collision avoidance or other rapid orbit changes. The simple and robust all aluminum structure provides radiation shielding and can support a range of payload configurations.

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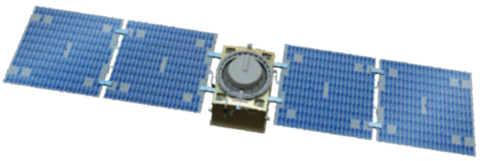
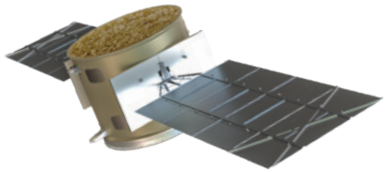
MOOG SPACE VEHICLE FAMILY

SPECIFICATIONS





Characteristic	METEORITE	METEORITE Max dV	METEORITE-HC	METEOR-B	METEOR-HC
Orbit	LEO, GEO	LEO, GEO	LEO, GEO	LEO, GEO	LEO, GEO
Design Life	3 Years	3 Years	3 Years	5 Years	5 Years
Pointing	Medium	Medium	High	Medium	High
Agility	Medium	Medium	High	Low	High
Propellant	LMP-103S Green Propellant/ Hydrazine	Hydrazine	Hydrazine	Hydrazine	Hydrazine
Delta-V	Up to 175 m/s Green Propellant (LMP-103S) Up to 1000 m/s EP	Up to 1050 m/s	Up to 400 m/s	400 m/s Hydrazine (w/750 kg dry mass)	400 m/s Hydrazine (w/750 kg dry mass)
Payload Mass	Up to 250 kg	Up to 250 kg	Up to 250 kg	750 kg or more (Top Mounted or Port/Side Mounted)	750 kg or more (Top Mounted or Port/Side Mounted)
Bus Voltage	28 V	28 V	28 V	28 V	28 V
Payload Orbit Average Power (OAP)	550 Watts	550 Watts	550 Watts	550 Watts	1700 Watts
Payload Peak Power	1500 Watts	1500 Watts	1500 Watts	1500 Watts	8000 Watts
Payload Interface	Bolted Platform 22" x 28" Deck, up to 30" H	67" x 46" Deck, up to 48" H	67" x 46" Deck, up to 48" H	62" Circular Platform	62" Circular Platform
Redundancy	Limited	Limited	Limited	Limited	Limited
Bus Wet Mass	~200 kg	~330 kg	~260 kg	~950 kg	~950 kg
Launch Interface	4-Point Mount, Motorized Lightband	4-point Mount	4-point Mount	62" Sep System	62" Sep System
TT&C Communications TBD	S-Band	S-Band	S-Band	S-Band	S-Band

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