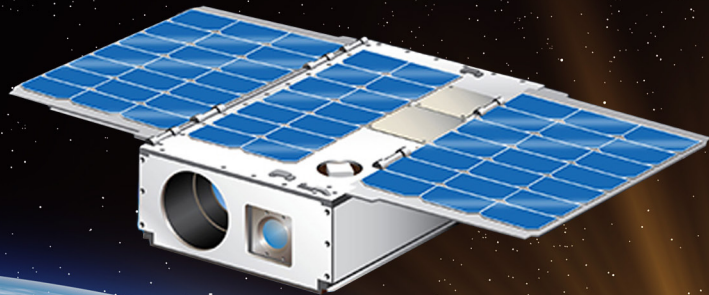


MPS-120

Innovative Propulsion Solutions for SmallSats

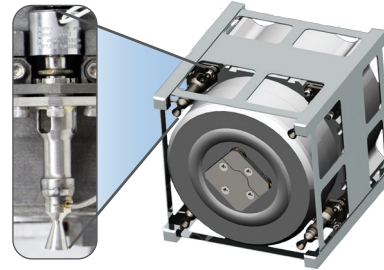


AEROJET
ROCKETDYNE

Low Power, High Delta V Propulsion for Cubesats
3D Printed Cubesat Propulsion for Constellation Deployment,
Orbit Maintenance and Stationkeeping

1U Configuration Pictured

Thruster Specifications (1U and 2U)



Throughput Capability (each):	>3.0 kg
Pulses:	10,000
Total Impulse Capability (each):	>6000 N-s
MIB:	0.0004 N-s
Thrust:	.25 - 1.25 N
Isp:	206 - 217 sec

System Specifications

Parameter	Value (1U)	Value (2U)
Propellant	Hydrazine	
Operation Pressure	150-85 psi	
Dry Mass	1.06 kg	1.36 kg
Wet Mass	1.48 kg	2.38 kg
Usable Propellant	0.38 kg	0.98 kg
Total System Impulse	775 N-s	2,000 N-s
Dimensions	10x10x10 cm	10x10x10 cm
Operation Temp Range	5-60 C	
Valve Power Per Valve	0.25 W	
Valve Voltage	6-8 Vdc	
Number of Thrusters	4	
System (tank) Heater Power (avg) **	10 W	
MRL/TRL	6/8	

**Highly dependent on spacecraft application/mission

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Performance Data

