



smallsats



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HEMERIA designs and produces the new generation of operational space systems, used for science, commercial and defense.



A portfolio of platforms, satellites, end-to-end systems and knowledge transfer.



Reduce costs and delay by an approach from the in-orbit demonstration to the full constellations, including development of local economic activities.



Possibility of integration into existing operational infrastructures for an immediate access and a win-win approach.

flight proven

Among our current missions:
**KINEIS CONSTELLATION,
JAPETUS, YODA, C3IEL,
SWING**

Watch our movie



		hp-iot LEO orbit	hp-eos LEO orbit		hp-geo GEO orbit
					
Platform Size		Standard Model	Standard Model	XL Model	Standard Model
		220 x 230 x 500 mm	440 x 430 x 265 mm	520 x 650 x 350 mm	600 x 500 x 300 mm
Platform Mass		20 kg	25 kg	50 kg	50 kg
Max. Payload Mass		20 kg	25 kg	65 kg	25 kg
Max. Payload Volume		220 x 230 x 400 mm + 8U Internally	440 x 430 x 440 mm	500 x 650 x 440 mm	> 30 U
Battery Energy Capacity		187Wh	210 Wh	420 Wh	210 Wh
Payload Power (EOL @ 600 km SSO)	10H30	30W (avg.) 70W (avg.) optional	10W (ave.)	80W (ave.)	100W (ave.)
	6H00-18H00	65W (avg.) 130W (avg.) optional	80W (ave.)	200W (ave.)	100W (ave.)
	Peak	200W	200W	> 1kW	200W
SADM		Optional	Optional		-
Uplink Rate		64 kbps (S-band)	64 kbps (S-band)		10 kbps (S-band)
Downlink Rate		1000 kbps (S-band)	1000 kbps (S-band) 260 - 390 (X-Band)	1000 kbps (S-band) 520 - 780 Mbps (X-Band)	10 kbps (S-band) 10 Mbps (X-band)
Delta-V		> 150 m/s	> 150 m/s	> 500 m/s	> 250 m/s
Thrust		350 μ N	> 350 μ N	> 10 mN	
Position Accuracy		5 m rms	5 m		-
Motion Accuracy		0,1 m/s rms	0.1 m/s		-
Time Accuracy		0,1 μ s rms	0.1 μ s		-
Attitude Pointing Error		< 0.15°	< 0.03°		< 0.04°
Attitude Knowledge Error		< 0.07°	< 0.01°		< 0.02°
Data storage for Payload		28 Go (Baseline) + 32 Go (Option)	28 Go (Baseline) + 32 Go (Option)		28 Go (Baseline) + 32 Go (Option)
Mission Lifetime		> 5 years	> 5 years		> 3 years
AOCS Pointing Modes		Geocentric / Sun · Optional : Target / Inertial / Polynomial / From payload	Geocentric / Sun / Target / Inertial · Optional : Polynomial / From the payload	Geocentric / Sun / Target / Inertial / Polynomial Optional : From the payload	Geocentric / Sun / Target / Inertial / Polynomial / From the payload.