

hemeria

smallsats

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

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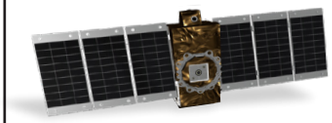
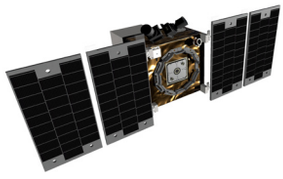
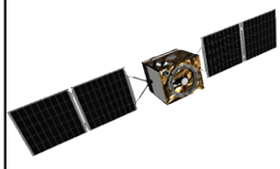
	hp-IoT LEO orbit	hp-eos LEO orbit		hp-geo GEO orbit
				
Platform Size	**Standard Model**	**Standard Model**	**XL Model**	**Standard Model**
	220 x 230 x 500 mm	440 × 430 × 265 mm	520 × 650 × 350 mm	600 × 500 × 300 mm
Platform Mass	20 kg	25 kg	50 kg	50 kg
Max. Payload Mass	20 kg	25 kg	65 kg	25 kg
Max. Payload Volume	220 × 230 × 400 mm + 8U Internally	440 × 430 × 440 mm	500 × 650 × 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 µN	> 350 µN	> 10 mN	
Position Accuracy	5 m rms	5 m		-
Motion Accuracy	0,1 m/s rms	0.1 m/s		-
Time Accurancy	0,1 µs rms	0.1 µs		-
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.

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