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.

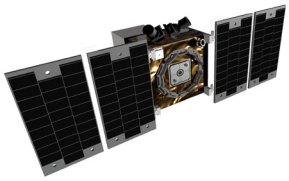
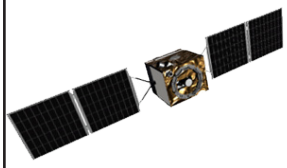
flight proven

Among our current missions:

KINEIS CONSTELLATION, JAPETUS, YODA, C3IEL, SWING

Watch our movie

smallsats

		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	460 × 600 × 340 mm
Platform Mass		20 kg	25 kg	115 kg	50 kg
Max. Payload Mass		20 kg	20 kg	70 kg	15-20 kg
Max. Payload Volume		220 × 230 × 400 mm + 8U Internally	440 × 430 × 440 mm	600 × 700 × 700 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.)	140W (ave.)	100W (ave.)
	6H00-18H00	65W (avg.) 130W (avg.) optional	80W (ave.)	210W (ave.)	100W (ave.)
	Peak	200W	200W	> 2kW	280W
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 - 310 (X-Band)	1000 kbps (S-band) 520 - 620 Mbps (X-Band)	10 kbps (S-band) 10 Mbps (X-band)
Delta-V		> 150 m/s	> 150 m/s	> 250 m/s	> 250 m/s
Thrust		> 300 µN	> 350 µN	> 7 mN	
Position Accuracy		5 m rms	<1m rms		-
Motion Accuracy		0,1 m/s rms	1 m/s rms		-
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.

HEMERIA - 8, impasse Boudeville - CS 22324 - 31023 TOULOUSE - France
Tel : 33 (0)5 82 95 16 22 - sales@hemeria-group.com
www.hemeria-group.com

space & sky

hemeria