



nanosatellites

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.



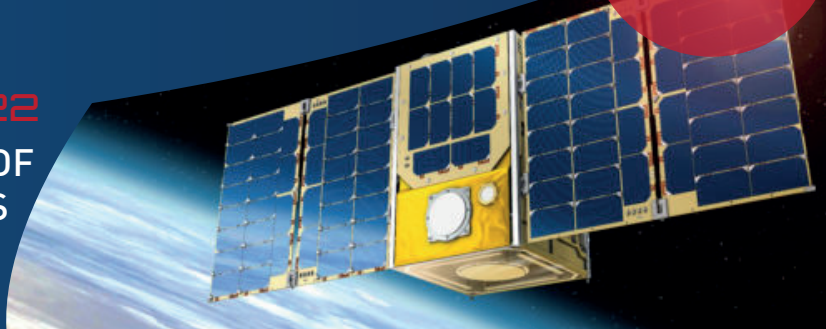
Reduce costs and delay by an approach from the in-orbit demonstration to the full constellations, including development of local economic activities.



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

**flight
proven**

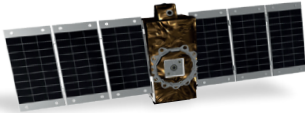
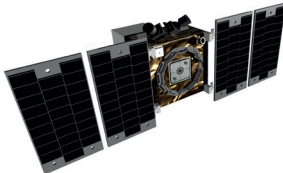
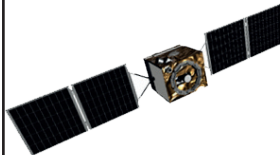
on-going step 2022
IOT CONSTELLATION OF
25 NANOSATELLITES
KINEIS



Watch our
movie



nanosatellites

		hp-1oT		hp-eos			hp-geo
							
Platform Size		Regular	Boosted	Regular	XL	XL+	300x300x300mm
		220x230x500 mm		210x360x430 mm	230x410x430 mm	250x500x430 mm	
Platform Mass		20 kg (including Ring interface)	22 kg (including Ring interface)	20 kg (including Ring interface)	30 kg (including Ring interface)	40 kg (including Ring interface)	50 kg (including Ring interface)
Max. Payload Mass		15 kg		25 kg	50 kg	65 kg	25 kg
Max. Payload Volume		8U Internally & compatible with extended payload volumes externally		360x430x440 mm	500x500x440 mm		> 30 U
Battery Energy Capacity		172Wh		187Wh			187Wh
Payload Power (EOL @ 600 km SSO)	10H30	50W avg.	80W avg.	20W avg.	50W avg.	80W avg.	100W avg.
	6H00-18H00	80W avg.	120W avg.	55W avg.	80W avg.	120W avg.	
	Peak	200W		200W			
Uplink Rate		64 kbps (S-band)		64 kbps (S-band)			10 kbps (S-band)
Downlink Rate		1000 kbps (S-band)	1000 kbps (S-band) + 150-300 Mbps (X-Band) Option	1000 kbps (S-band) 350 Mbps (X-band)		1000 kbps (S-band) 700 Mbps (X-band)	10 kbps (S-band) 10 Mbps (X-band)
Delta-V		> 150 m/s		> 150 m/s	> 400 m/s	> 300 m/s	> 250 m/s
Position Accuracy		-	5 m	5 m			-
Motion Accuracy		-	0.1 m/s	0.1 m/s			-
Time Accuracy		-	0.1 μs	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)	1 To		28 Go (Baseline) + 32 Go (Option)
Mission Lifetime		8 years		> 5 years			> 5 years
AOCS Pointing Modes		Geocentric / Sun Target / Inertial / Polynomial / From Payload (Options)		Geocentric / Sun / Target / Inertial Polynomial / From Payload (Options)			Geocentric / Sun / Target / Inertial Polynomial / From Payload (Options)