

nanosatellites

hemeria

HEMERIA helps countries maintain their sovereignty, we build new generation of operational systems for science, commercial or defense applications.

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

ANGELS

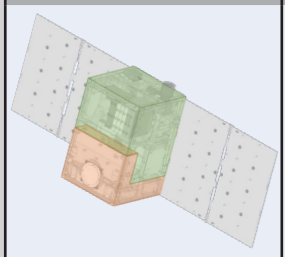
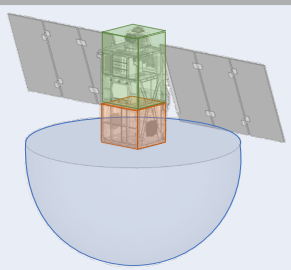
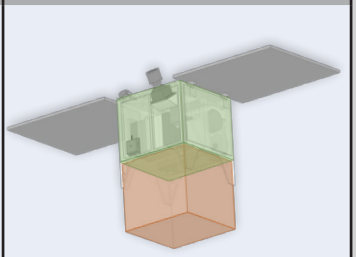


Watch our movie

on-going step 2022

IOT CONSTELLATION OF 25 NANOSATELLITES KINEIS

nanosatellites

		hp-dem	hp-IoT		hp-eos
					
Platform Size		12U Cubesat	Short version	Regular version	300x300x265 mm3
			400x230x250 mm^3	500x210x250 mm^3	
Platform Mass		13kg (excluding canister)	15 kg (including Ring interface)	18 kg (including Ring interface)	18kg (including Ring interface)
Max. Payload Mass		6 kg	10 kg	15 kg	20 kg
Max. Payload Volume		4U (4 liters)	4 liters 100x190x230 mm^3 + Antennas	8 liters 100x190x230 mm^3 + Antennas	40 liters 410x365x265 mm^3
Spacecraft Max Solar Input Power		100W	120W	180W	100W
Payload Power (EOL @ 600 km SSO)	**10H30**	20W avg.	25W avg.	35W avg.	20W avg,
	6H00-18H00	35W avg,	65W avg.	90W avg.	35W avg.
	Peak	200W	200W		200W
Uplink Rate		64 kbps (S-band)	64 kbps (S-band)		64 kbps (S-band)
Downlink Rate		512 kbps (S-band)	512 kbps (S-band)		512 kbps (S-band) 200 Mbps (X-band)
Delta-V		-	Up to 250 m/s		Up to 250 m/s
Position Accuracy		10 m	10 m		10 m
Motion Accuracy		0,01 m/s	0,01 m/s		0,01 m/s
Attitude Pointing Error		< 1°	< 1°		< 0.05°
Attitude Knowledge Error		< 0.5°	< 0.5°		< 0.02°
Mission Lifetime		> 3 years	> 5 years		> 5 years
AOCS Pointing Modes		GEOCENTRIC TARGET, SUN	GEOCENTRIC, TARGET, SUN		GEOCENTRIC, TARGET, SUN, INERTIAL, POLYNOMIAL

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