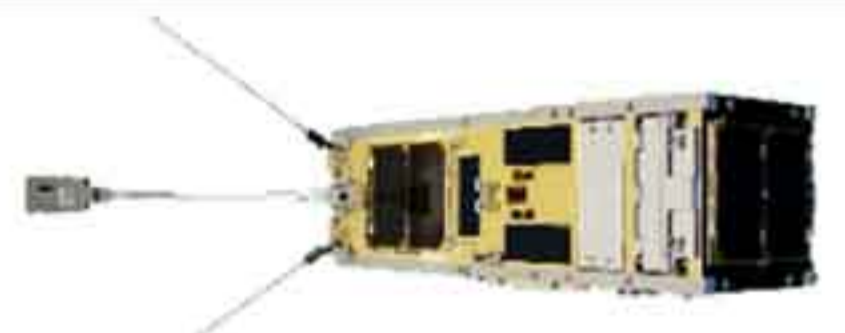


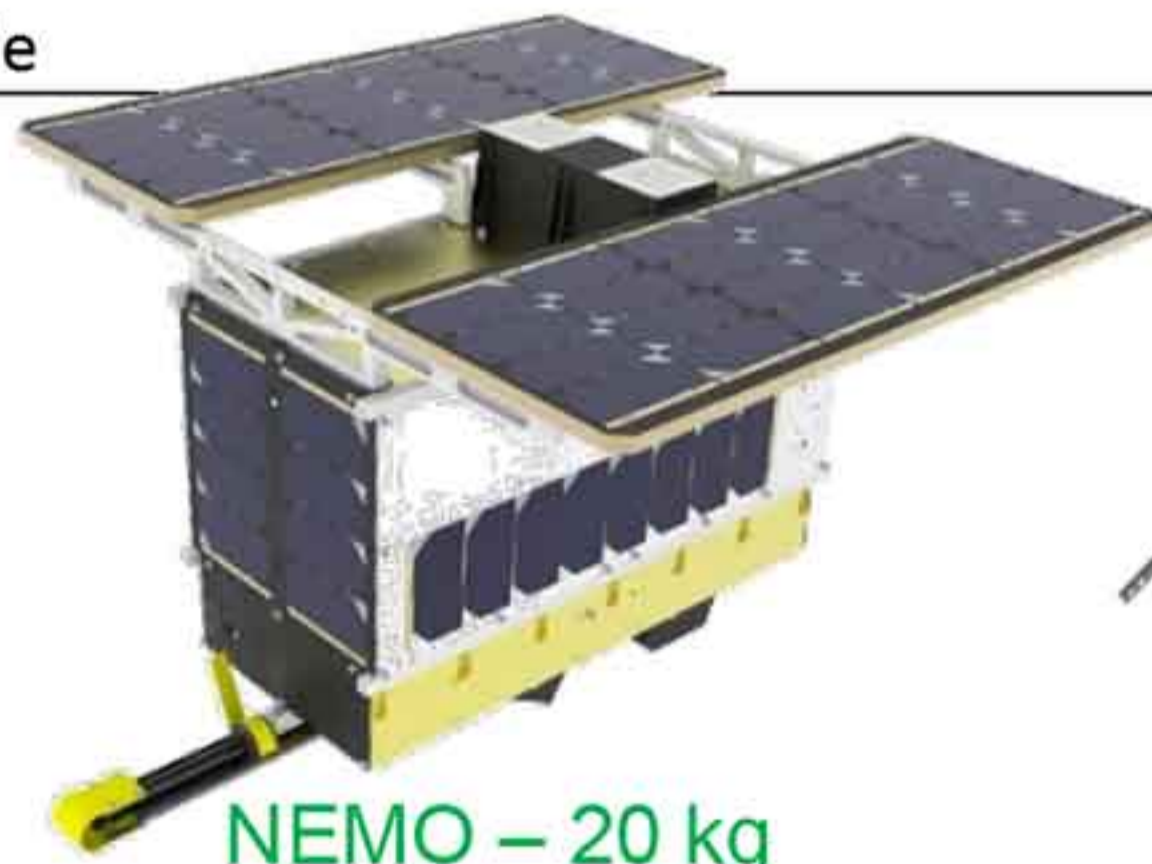
Satellite Platforms

Custom Solutions Possible – Over 120 Years of Cumulative Space Heritage – Specifications Can be Tailored to the Mission							
	THUNDER 3U	SPARTAN 6U	JAEGER 12U/16U	NEMO	DEFIANT	NAUTILUS	DAUNTLESS
Mass	3 - 6 kg	6 - 12 kg	12 - 24 kg	15-20 kg	20-50 kg	up to 150 kg	up to 500 kg
Volume	10 x10 x34 cm	10 x20 x36 cm	12U: 20 x20 x36 cm 16U: 20 x20 x45 cm	20 x30 x44 cm	36 x36 x45 cm (scalable)	60 x60 x60 cm (scalable)	1 x1 x 1 m (scalable)
Payload Mass	Up to 3 kg	Up to 6 kg	Up to 15 kg	Up to 12 kg	Up to 30 kg	up to 90 kg	up to 300 kg
Payload Volume	Up to 2 dm ³ 2U	Up to 4 dm ³ 4U	Up to 10 dm ³ 10U	Up to 12 dm ³	Up to 26 dm ³	up to 0.16 m ³	up to 0.80 m ³
Payload Power	Up to 31 Wh/orbit 62 W peak	Up to 46 Wh/orbit 160 W peak ⁽⁴⁾	Up to 76 Wh/orbit 215 W peak ⁽⁴⁾	Up to 37 Wh/orbit 160 W peak	Up to 76 Wh/orbit 215 W peak	Up to 122 Wh/orbit 525 W peak	Up to 260 Wh/orbit 800 W peak
ACS inertial stability	2° ⁽¹⁾ 10 arcsec ⁽²⁾	2° ⁽¹⁾ 10 arcsec ⁽²⁾	2° ⁽¹⁾ 10 arcsec ⁽²⁾ 1 arcsec ⁽³⁾	2° ⁽¹⁾ 10 arcsec ⁽²⁾ 1 arcsec ⁽³⁾	2° ⁽¹⁾ 10 arcsec ⁽²⁾ 1 arcsec ⁽³⁾	2° ⁽¹⁾ 10 arcsec ⁽²⁾ 1 arcsec ⁽³⁾	2° ⁽¹⁾ 10 arcsec ⁽²⁾ 1 arcsec ⁽³⁾
ACS Modes	3-axis inertial, nadir, target tracking	3-axis inertial, nadir, target tracking	3-axis inertial, nadir, target tracking	3-axis inertial, nadir, target tracking	3-axis inertial, nadir, target tracking	3-axis inertial, nadir, target tracking	3-axis inertial, nadir, target tracking
Downlink	Up to 2 Mbps	Up to 50 Mbps	Up to 50 Mbps	Up to 50 Mbps	Up to 120 Mbps	Up to 240 Mbps	Up to 400 Mbps
Propulsion	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Navigation	GPS, 5-10m	GPS, 5-10m	GPS, 5-10m	GPS, 5-10m	GPS, 5-10m	GPS, 5-10m	GPS, 5-10m
Launch Interface	COTS Deployers	COTS Deployers	COTS Deployers	XPOD Duo XPOD Delta	Separation System	Separation System	Separation System
Quality Approach	Newspace or Microspace	Newspace or Microspace	Newspace or Microspace	Microspace	Microspace	Microspace	Microspace
Mission Heritage	CanX-2, NTS, CanX-7	Kepler, AISSat Constellation, BRITE Constellation, EV9, CanX-4, CanX-5	Kepler NorSat-3	GHGSat-D,C1,C2, NorSat-1, -2, -3, HE360P, DMSat-1	HE360, GrayJay, NorSat-TD, NorSat-4	NEMO-HD	LEO 2

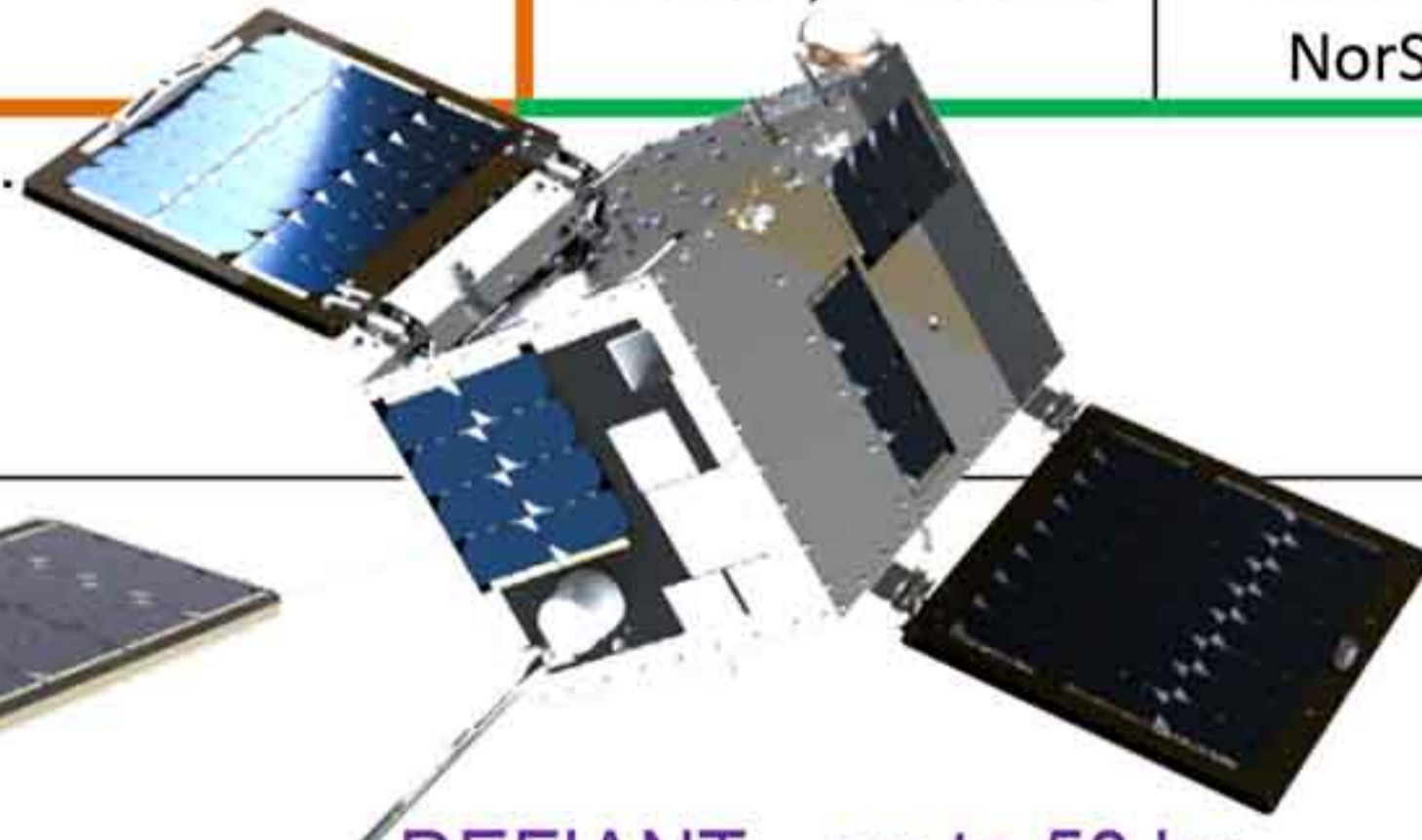
1. With magnetometer, sun sensor, reaction wheels in 30 min.
2. With star tracker and three reaction wheels in 30 seconds.
3. With gyro, star-tracker, and reaction wheels in 10 seconds.
4. Articulated solar arrays available



THUNDER 3U – 6 kg
10 x 10 x 34 cm
Payload: 3 kg, 62 W



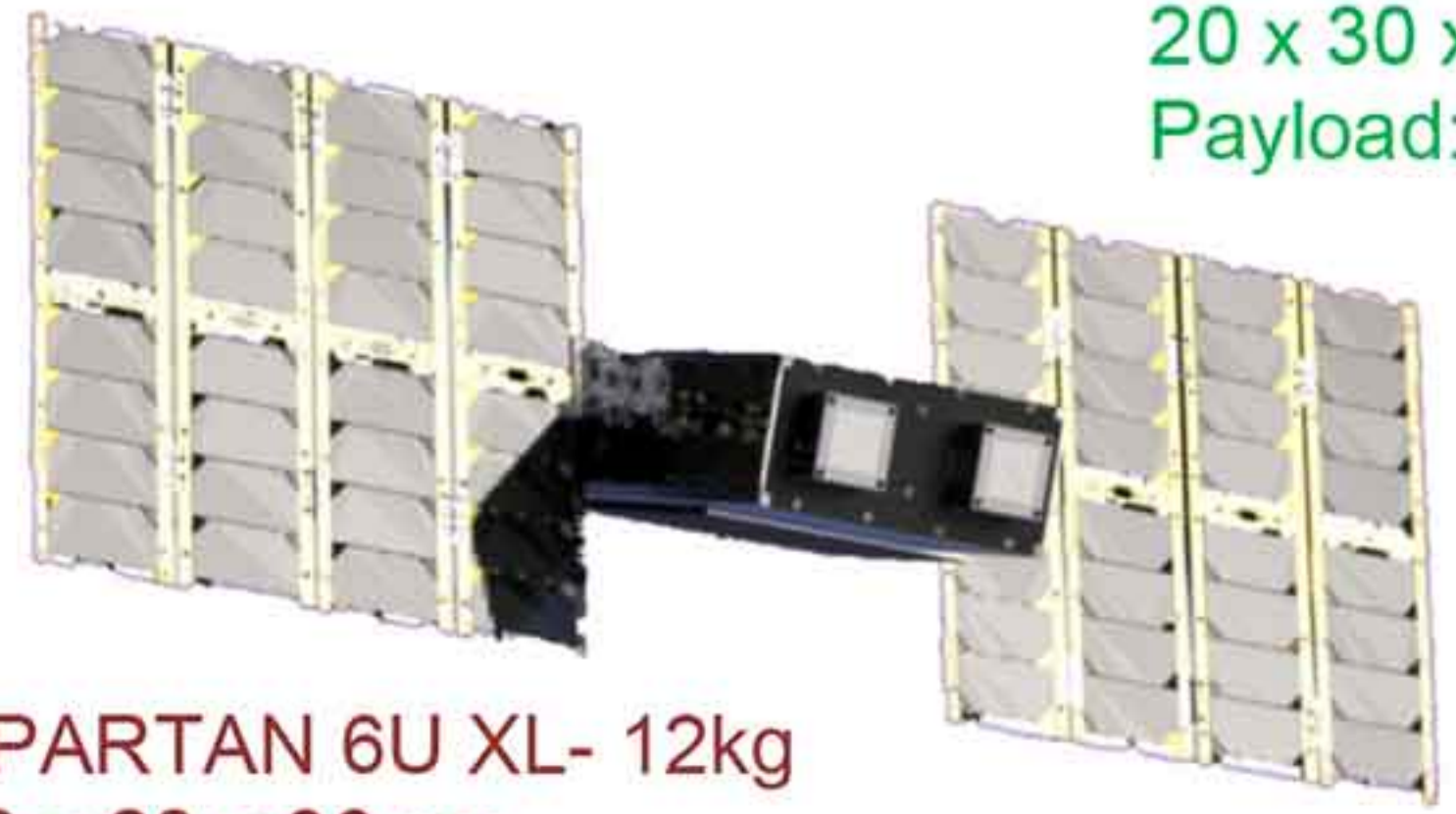
NEMO – 20 kg
20 x 30 x 44 cm
Payload: 12 kg, 160 W



DEFIANT – up to 50 kg
36 x 36 x 45 cm, scalable
Payload: up to 30 kg, 215 W



DAUNTLESS – up to 500 kg
1 x 1 x 1 m, scalable
Payload: up to 300 kg, 800 W



SPARTAN 6U XL- 12kg
10 x 20 x 36 cm
Payload: 6 kg, 160 W



NAUTILUS – up to 150 kg
60 x 60 x 60 cm, scalable
Payload: up to 90 kg, 525 W