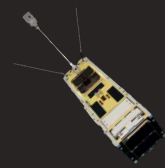


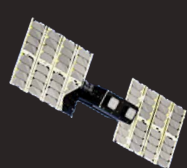
SATELLITE / SPACECRAFT PLATFORMS

<i>Example specs only</i>	THUNDER 3U	SPARTAN 6U	JAEGER 12U/16U	NEMO	DEFIANT	DEFIANT XL	DAUNTLESS
Mass	3 - 6 kg	6 - 12 kg	12 - 24 kg	15-20 kg	20-60 kg	up to 120 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)	< 50 x50 x80 cm (scalable)	< 1x1 x 1 m (scalable -E, -EG, -L variants)
Payload Mass	Up to 3 kg	Up to 6 kg	Up to 15 kg	Up to 12 kg	Up to 30 kg	up to 60 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 0.12 m ³	up to 0.80 m ³
Payload Power⁽⁴⁾	Up to 31 Wh/orbit 62 W peak	Up to 46 Wh/orbit 160 W peak	Up to 76 Wh/orbit 215 W peak	Up to 37 Wh/orbit 160 W peak	Up to 76 Wh/orbit 215 W peak	Up to 200 Wh/orbit 250 W peak	Up to 850 Wh/orbit 1000 W peak
ACS Performance	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 Ranging/ Doppler
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 HE360, DMSat-1	HE360 GrayJay NorSat-TD NorSat-4 LEO3	Aspera RADICALS	LEO 2, NEMO-HD StarBurst Moonraker Helioswarm Nodes

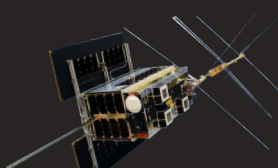
CUSTOM SOLUTIONS POSSIBLE - OVER 430+ YEARS OF CUMULATIVE SPACE HERITAGE - SPECIFICATIONS CAN BE TAILORED TO THE MISSION



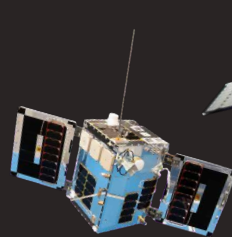
THUNDER 3U – 6 kg
10 x 10 x 34 cm
Payload: 3 kg, 62 W



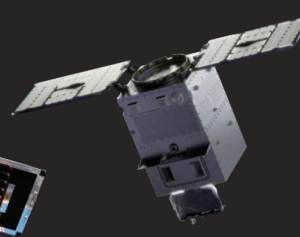
SPARTAN XL- 12kg
10 x 20 x 36 cm
Payload: 6 kg, 160 W



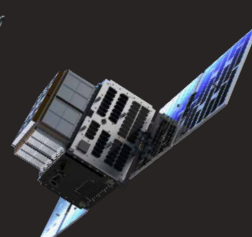
NEMO 20 kg
20 x 30 x 44 cm
Payload: 12 kg, 160 W



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



DEFIANT-XL – up to 120 kg
50 x 50 x 80 cm, scalable
Payload: up to 60 kg, 500 W



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

(1) With magnetometer, sun sensor, reaction wheels 1 sigma, inertial pointing, approximate numbers.

(2) With star tracker and three reaction wheels 1 sigma, inertial pointing, approximate numbers.

(3) With gyro, star-tracker, and reaction wheels 1 sigma, inertial pointing, approximate numbers.

(4) Articulated solar arrays available.