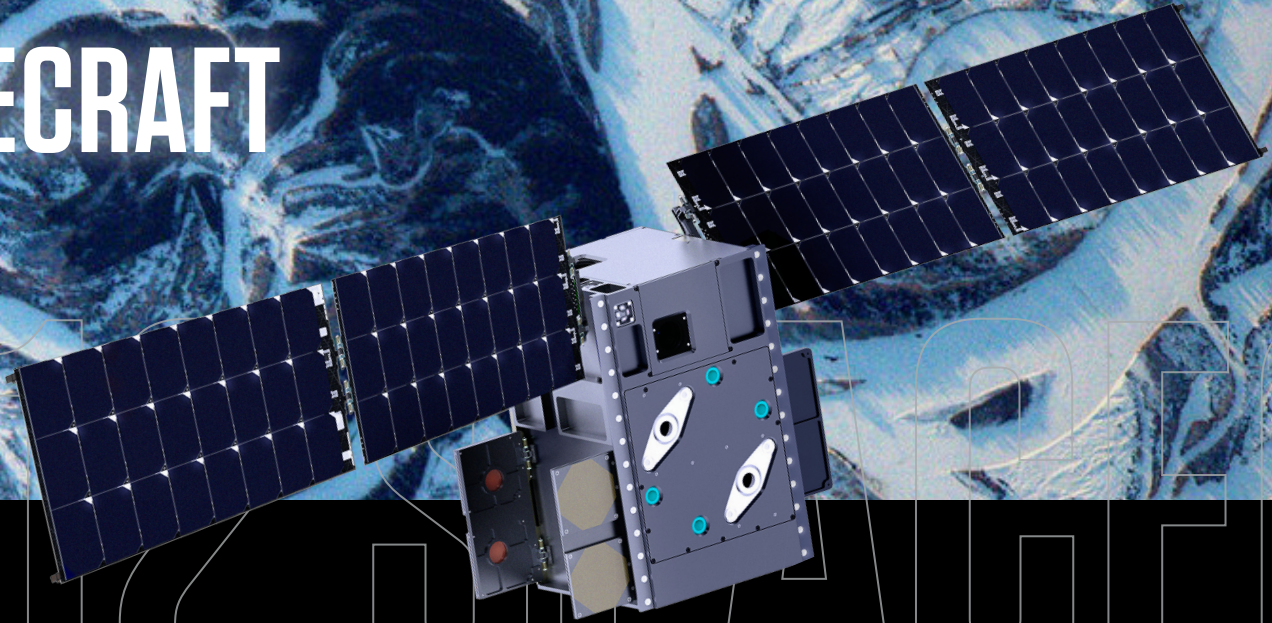




Spacecraft Buses,
Systems & Solutions

XB12 SPACECRAFT



CLASS

12U

ENERGY STORAGE

6.8-17 Ah

POINTING ACCURACY

$\pm 0.002^\circ$ (1-sigma), 3 axes, 2 trackers

ORBIT ALTITUDE / ORBIT LIFETIME

LEO > 5 years | GEO > 2 years

SOLAR ARRAY POWER

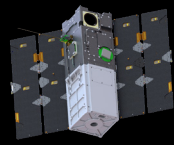
98W - 118W

AVAILABLE PAYLOAD VOLUME

8U (typical)



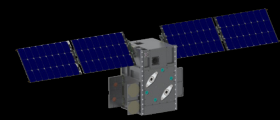
SPACECRAFT SUMMARY



XB3



XB6



XB12

CLASS	3U	6U	12U
AVAILABLE PAYLOAD VOLUME	1.5U (typical)	4U (typical)	8U (typical)
POINTING ACCURACY	±0.003 deg (1-sigma) for 2 axes; ±0.007 deg (1-sigma) for 3rd axis	±0.002 deg (1-sigma) 3 axes, 2 Trackers	±0.002 deg (1-sigma) 3 axes, 2 Trackers
POINTING STABILITY	1 arc-sec over 1 sec		
ORBIT KNOWLEDGE	4m, 0.05m/s		
DATA INTERFACES	Serial, LVDS, Spacewire, HDLC or SPI available		
ONBOARD DATA STORAGE	4GB with expandable beyond for the 6U and 12U (by adding the high speed data recorder)		
ENERGY STORAGE	6.8 Ah	6.8 – 17 Ah	6.8 – 17 Ah
SOLAR ARRAY POWER	28W - 42W	98W - 118W	98W - 118W
HIGH CURRENT CAPABILITY	Unregulated up to 60W	Unregulated up to 120W	Unregulated up to 120W
UPLINK	Nominal 100 Kbps, CCSDS formatting		
DOWNLINK	Up to 4 Mbps	Up to 20 Mbps	Up to 20 Mbps
ORBIT ALTITUDE / ORBIT LIFETIME	LEO > 5 years GEO > 2 years		
PROPULSION	Multiple electric and chemical propulsion systems available		
SCALE			

Our family of XB Spacecraft offers complete end-to-end solutions for your mission needs. Featuring an extremely precise, highly powerful integrated spacecraft bus platform — ranging from a 3U CubeSat to an ESPA-Grande satellite — our versatile systems are built to accommodate any and all types

of missions. With robust power systems, secure data handling, and resilient performance, our suite of solutions are time-tested and proven-reliable, even under the harshest of conditions. Get ready for a new era of peak-performance, cost-efficient spacecraft solutions.