BLUE CANYON TECHNOLOGIES

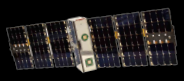
SPACECRAFT BUSES, SYSTEMS & SOLUTIONS

SPACE AWAITS

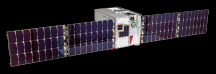
With our suite of spacecraft services and technology, your team can build, test, launch and operate, all using our line of revolutionary buses.

CUBESAT SOLUTIONS

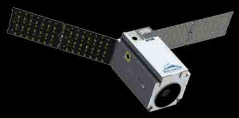
XB3



XB6



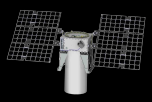
XB12



XB16

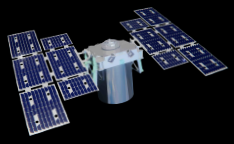
	XB3	XB6	XB12	XB16
CLASS	3U	6U	12U	16U
AVAILABLE PAYLOAD VOLUME	1.5U (typical)	4U (typical)	8U (typical)	12U (typical)
POINTING ACCURACY	±0.003 deg (1-sigma) for 2 axes; ±0.007 deg (1-sigma) for 3rd axis	±0.002 deg (1-sigma) 3 axes, 2 Trackers	±0.002 deg (1-sigma) 3 axes, 2 Trackers	±0.002 deg (1-sigma) 3 axes, 2 Trackers
ENERGY STORAGE	6.8 Ah	6.8 – 20.4 Ah	6.8 – 20.4 Ah	6.8 – 20.4 Ah
SOLAR ARRAY POWER	27 W	92 W - 108 W	92 W - 108 W	92 W - 108 W

MICROSAT & MINISAT SOLUTIONS



VENUS-100

SATURN-200



SATURN-400

	VENUS-100	SATURN-200	SATURN-400
CLASS	ESPA-Standard or large 15” launch vehicle interface	ESPA-Grande or Equivalent 24” launch interface standard, other options available	ESPA-Grande or Equivalent 4-point mount launch vehicle interface,compliant to SpaceX Rideshare
PAYLOAD VOLUME	20.5” X 16.4” X 27.0” (1 array) 17.0” X 16.4” X 27.0” (2 array) Larger volume available depending on launch vehicle	30.0” X 30.0” X 40.0” (typical) Larger volume available within rideshare envelope and in dedicated launch vehicle fairings	40.0” x 40.0” x 45.0” (objective) Larger volume available depending on launch vehicle allowable payload volume
POINTING ACCURACY	±0.002° (1-sigma), 3 axes, 2 Trackers		
ENERGY STORAGE	13.26 Ah	54.4 Ah	75 Ah Options for increased energy storage available
SOLAR ARRAY POWER (BOL)	One wing: 222 W Two wing: 444 W	1082 W	1876 W

FEATURED COMPONENTS

ATTITUDE DETERMINATION & CONTROL SYSTEMS
XACT-15

SPACECRAFT POINTING ACCURACY (1-SIGMA)	±10 arcsec for 2 axes; ±25 arcsec for 3rd axis
VOLUME	10 x 10 x 5 cm (0.5U)

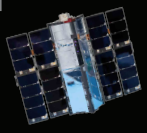
REACTION WHEELS
RW16

VOLUME	242 x 242 x 120 mm
MAX TORQUE	0.25 Nm

CONTROL MOMENT GYROSCOPES
CMG 8

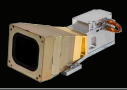
TORQUE	8 Nm
MASS	< 13 kg

SOLAR ARRAYS
3U



SOLAR ARRAY POWER	27 - 34 W
ARRAY VOLTAGE	15 VDC

STAR TRACKERS
FULL EXTENSION NST



ATTITUDE KNOWLEDGE	Gen3: 1 asec (cross boresight); 10 asec (around boresight) Gen2: 6 asec (cross boresight); 40 asec (around boresight)
VOLUME	25 x 10 x 10 cm

MISSIONS OPERATIONS

Our vertical integration spans from individual components to mission operations services that manage spacecraft on-orbit. We provide customer-driven mission planning and on-orbit tasking solutions, enabling customers to focus on their mission objectives while we handle all other aspects through robust, flight proven interfaces and processes.

With more than 40+ years of cumulative on-orbit heritage and 90,000 supported contacts, our Mission Operations team has the expertise you can rely on to support your mission.

OUR MISSIONS

BLACKJACK
Defense Advanced Research Projects Agency (DARPA)
- **Provided:** Constellation of four Saturn-200 buses

ORACLE-M
Air Force Research Laboratory
- **Provided:** Custom ESPA-Grande bus

PAMI-1
Netherlands Ministry of Economic Affairs and Climate
- **Provided:** Saturn-200 bus

PANDORA
NASA Goddard Space Flight Center and Lawrence Livermore National Laboratory
- **Provided:** Saturn-200 bus, System Integration and Test

PREFIRE
NASA Jet Propulsion Laboratory
- **Provided:** Two XB6 CubeSat buses

RAVAN
Johns Hopkins University Applied Physics Laboratory
- **Provided:** XB3 CubeSat bus, Mission Operations

STARLING
NASA Ames Research Center
- **Provided:** Constellation of four XB6 CubeSat buses, Mission Operations

TEMPEST-D
Colorado State University
- **Provided:** XB6 CubeSat bus, Mission Operations

TROPICS
MIT Lincoln Laboratory
- **Provided:** Constellation of seven XB3 CubeSat buses, Mission Operations

Note: This data is for information only and subject to change. Please contact Blue Canyon Technologies for current design data.

REV 6/2025