



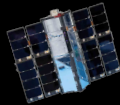
BLUE CANYON
TECHNOLOGIES

SPACECRAFT BUSES, SYSTEMS & SOLUTIONS

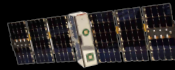
SPACE AWAITS

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

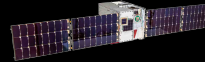
CUBESAT SOLUTIONS



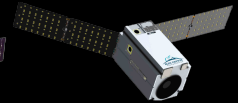
XB3



XB6



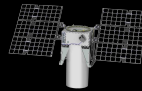
XB12



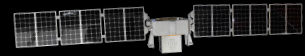
XB16

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

CLASS	ESPA-Standard or large 15" launch vehicle interface	ESPA-Grande or Equivalent 24" launch interface standard, other options available
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
POINTING ACCURACY	±0.002° (1-sigma), 3 axes, 2 Trackers	
ENERGY STORAGE	13.26 Ah	54.4 Ah
SOLAR ARRAY POWER (BOL)	One wing: 222 W Two wing: 444 W	1082 W

FEATURED COMPONENTS

ATTITUDE DETERMINATION & CONTROL SYSTEMS

XACT-15

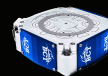


SPACECRAFT POINTING ACCURACY (1-SIGMA) ±10 arcsec for 2 axes; ±25 arcsec for 3rd axis

VOLUME 10 x 10 x 5 cm (0.5U)

REACTION WHEELS

RWP500



VOLUME 110 x 110 x 38 mm

MAX TORQUE 0.025 Nm

CONTROL MOMENT GYROSCOPES

CMG 12



TORQUE 12 Nm

MASS < 18 kg

SOLAR ARRAYS

3U

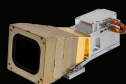


SOLAR ARRAY POWER 27 - 34 W

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 24 years of cumulative on-orbit heritage and 75,000+ 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

INCUS

Colorado State University and Jet Propulsion Laboratory

- **Provided:** Constellation of three Venus-100 buses

METHANESAT

MethaneSAT, LLC

- **Provided:** Saturn-200 bus

ORACLE-M

Air Force Research Laboratory

- **Provided:** Custom ESPA-Grande bus

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.