



DRAGONFLY BUS

High-Performance Imaging Satellite

150 kg bus

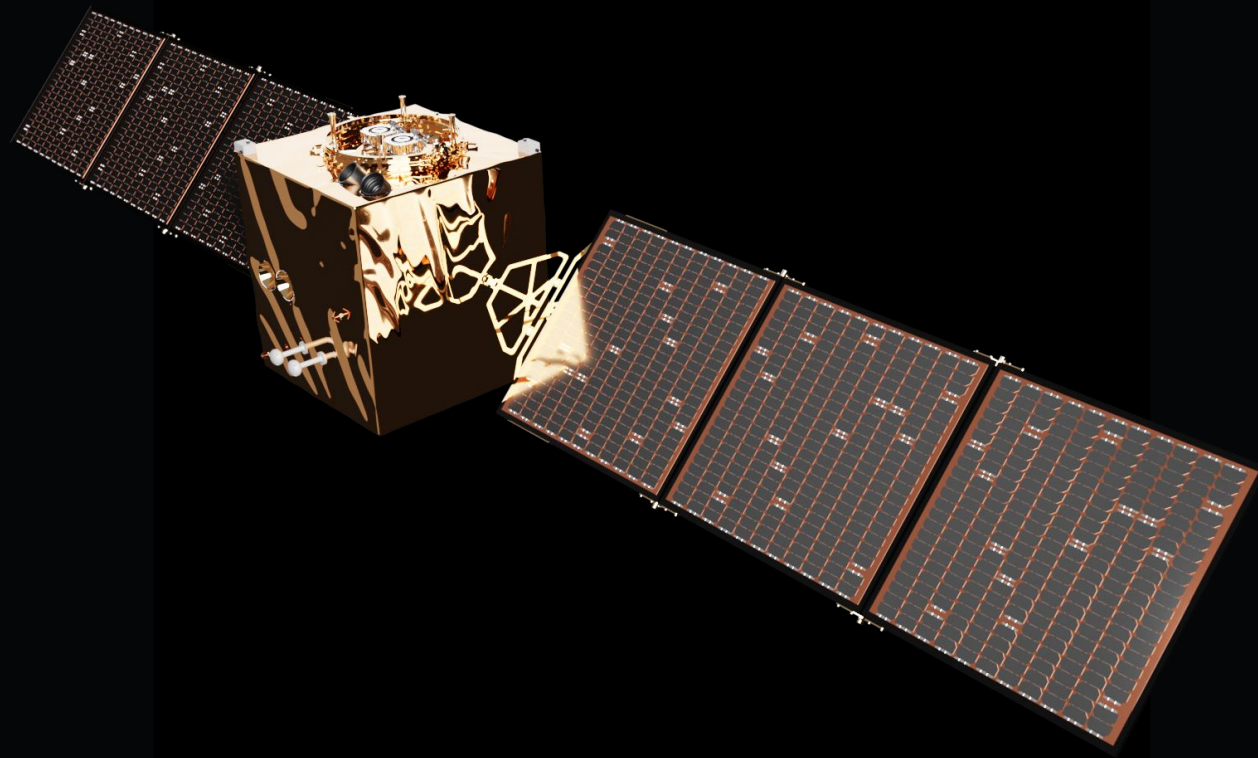
Class

8 years

Lifetime

Up to 2400 Wh

Energy storage



Designed for precise spatial resolution Earth imaging and mapping for a wide range of communication and scientific purposes.

Technical Specifications

Attitude and Orbit Control

Pointing Control Stability	<0.002°/sec (3-sigma)
Pointing Control Accuracy	<0.02° (3-sigma)
Slew Rate	up to 2.5°/sec
Geolocation Knowledge Accuracy	<65 m (3-sigma)
Control Frequency	10 Hz
Fully Automated AOCS	Through target tracking
Xenon Electric Propulsion System	28mN thrust, 1850s Isp

Electrical Power System

Solar Array Peak Power	1500 W
Orbit Average Power (OAP)	800 W
Peak Power	4.2 kW
Bus Voltage	28V (regulated) 48V (ready)

Communications

S-Band TMTC	400kbps down, 150kbps up
X-Band Data Downlink	2.5 Gbps

Payload

Available Mass	Up to 250 kg
Available Volume	1000 x 1000 x 1000 mm
Available Peak Power	Up to 4.0 kW

Electrical Interfaces

TMTC	CANbus, RS422/RS485
Data	LVDS / SpaceWire / SerDes
High-Speed Data Recorder (HSDR)	32 GB (EDAC Protected)
Optional HSDR	Up to 8 TB storage (scalable)