



# μDRAGONFLY BUS

High-Performance  
Imaging Satellite

100 kg bus

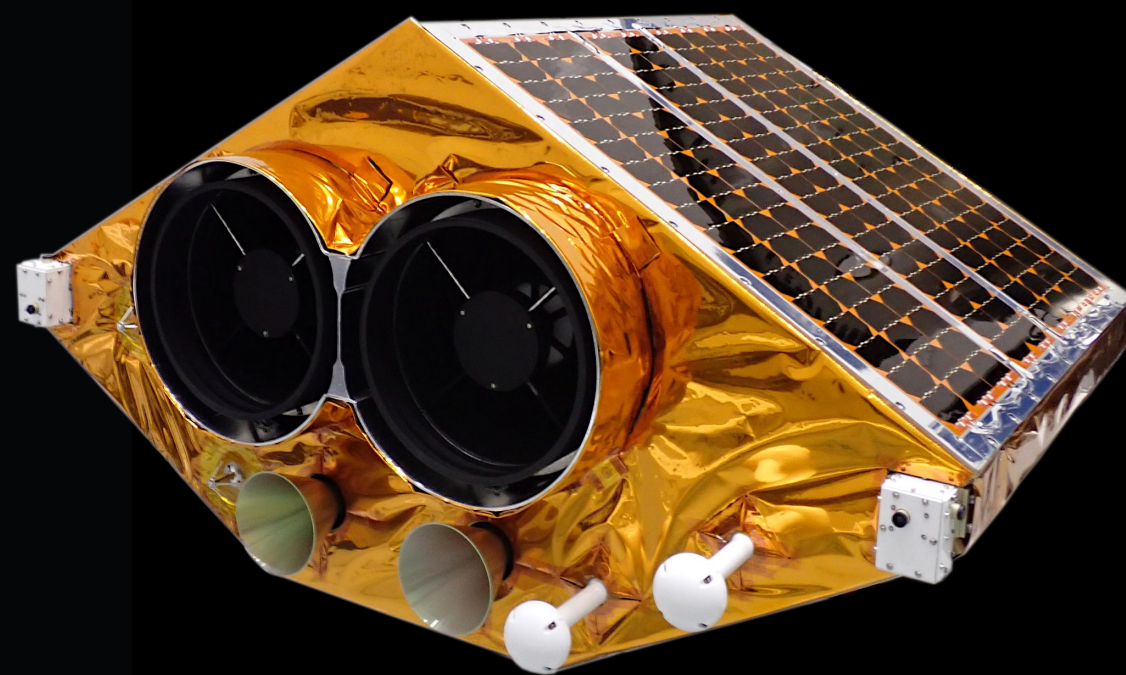
Class

5 years

Lifetime

Up to 600 Wh

Energy storage



Our satellite bus technology is optimised to support high-performance payloads, with our first μDragonfly bus successfully launched in January 2023.

## Technical Specifications

### Attitude and Orbit Control

Pointing Control Stability	<0.0015°/sec (3-sigma)
Pointing Control Accuracy	<0.01° (3-sigma)
Slew Rate	Up to 4°/sec
Geolocation Knowledge Accuracy	120 m (3-sigma)
Control Frequency	10 Hz
Fully Automated AOCS	Through target tracking
Xenon Electric Propulsion System	11mN thrust, up to 1400s lsp

### Electrical Power System

Solar Array Peak Power	220 W
Orbit Average Power (OAP)	140 W
Peak Power	1.2 kW
Bus Voltage	24.3-32.4V (unregulated)

### Communications

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

### Payload

Available Mass	Up to 100 kg
Available Volume	Ø500 mm x 1000+ mm
Available OAP	Up to 210 W

### Electrical Interfaces

TMTC	CANbus, RS422/RS485
Data	LVDS / SpaceWire / SerDes
High Speed Data Recorder (HSDR)	32 GB (EDAC Protected)
Optional HSDR	8 TB (Scalable)