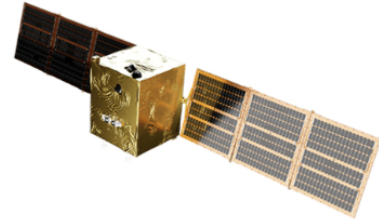


# DRAGONFLY BUS

## High-performance imaging satellite

Designed for precise spatial resolution Earth imaging and mapping for a wide range of communicational and scientific applications.



## DRAGONFLY BUS Core Specifications

**200 kg bus**

Class

**8 years**

Lifetime

**up to 2400 Wh**

Energy storage

## DRAGONFLY BUS Technical Specifications

### Attitude & Orbit control

|                                |                        |                                  |                         |
|--------------------------------|------------------------|----------------------------------|-------------------------|
| Pointing control stability     | < 0.002°/sec (3-sigma) | Control frequency                | 10 Hz                   |
| Pointing control accuracy      | < 0.02° (3-sigma)      | Fully automated AOCS             | through target tracking |
| Slew rate                      | up to 2°/sec           | Xenon Electric Propulsion System | 28 mN thrust, 1850s Isp |
| Geolocation knowledge accuracy | < 65 m (3-sigma)       |                                  |                         |

### Communications

|             |                            |                      |        |
|-------------|----------------------------|----------------------|--------|
| S-Band TMTC | 400 kbps down, 150 kbps up | X-Band Data Downlink | 1 Gbps |
|-------------|----------------------------|----------------------|--------|

### Electrical power system

|                           |               |             |   |
|---------------------------|---------------|-------------|---|
| Energy storage            | up to 2400 Wh | Peak power  | 4 kW  |
| Solar Array Peak Power    | up to 1130 W  | Bus Voltage | 28 V (regulated) and 40.5 – 54.0V (unregulated) |
| Orbit Average Power (OAP) | 710 W         |             |   |

### Payload

|                  |                        |               |       |
|------------------|------------------------|---------------|-------|
| Available mass   | up to 250 kg           | Available OAP | 630 W |
| Available volume | 1000 × 1000 × 1000+ mm |               |       |

### Electrical interfaces

|      |                        |                                 |      |
|------|------------------------|---------------------------------|------|
| TMTC | CANbus, RS422/RS485    | High Speed Data Recorder (HSDR) | 4 TB |
| Data | LVDS / SpaceWire / MGT |                                 |      |