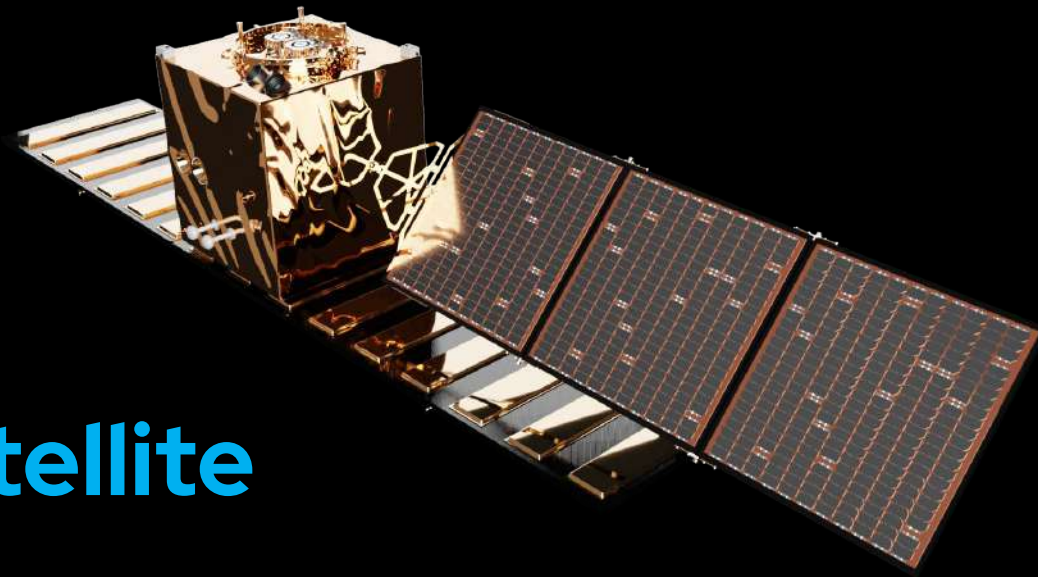


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# DRAGONFLY-C

## Single Polarimetric SAR Satellite

High-performant C-band Synthetic Aperture Radar satellite featuring advanced onboard processing capabilities for real-time SAR image formation, Ground Moving Target Identification, and object detection and tracking.

### Satellite Specifications

Frequency Band	C-band	PRF	0.4-40 kHz
Antenna Configuration	Deployable Phased Array	Incident Angle Range	20-52°
Range Bandwidth	300-600 MHz	Beam Configuration	Digital Beamforming
Polarisation	HH or VV	Waveform	Arbitrary Waveform Generation
Imaging Modes	Stripmap, Spotlight, ScanSAR, Sliding Spotlight, Stripmap Wide	Imaging Time per Orbit	5-10 min
Peak Radiated Power	4 kW	Payload Mass	176 kg
Transmitter Duty Cycle	5-20%	Bus Dry Mass	163 kg
		Satellite Mass	350 kg
		Data Downlink	Up to 2.5 Gbps (≥ 1 Gbps avg.)

Imaging Mode	Stripmap	Spotlight	ScanSAR
<b>Nominal Swath</b>	20-44 km	10 km	100 km
<b>Nominal Product Length</b>	100 km	5 km	100 km
<b>Incidence Angle</b>	20-52°	20-35°	20-35°
<b>NESZ</b>	-20 to -17 dB	-19 to -17 dB	-22 to -18 dB
<b>AASR &amp; RASR</b>	≤ -20	≤ -20	≤ -20
<b>GRD, Ground Range Resolution</b>	3 m	1-1.5 m	15 m
<b>GRD, Ground Azimuth Resolution</b>	3 m	1-1.5 m	15 m

Extended imaging capabilities include Sliding Spotlight, Wide-swath Stripmap and VideoSAR imaging modes.