ηDRAGONFLY BUS
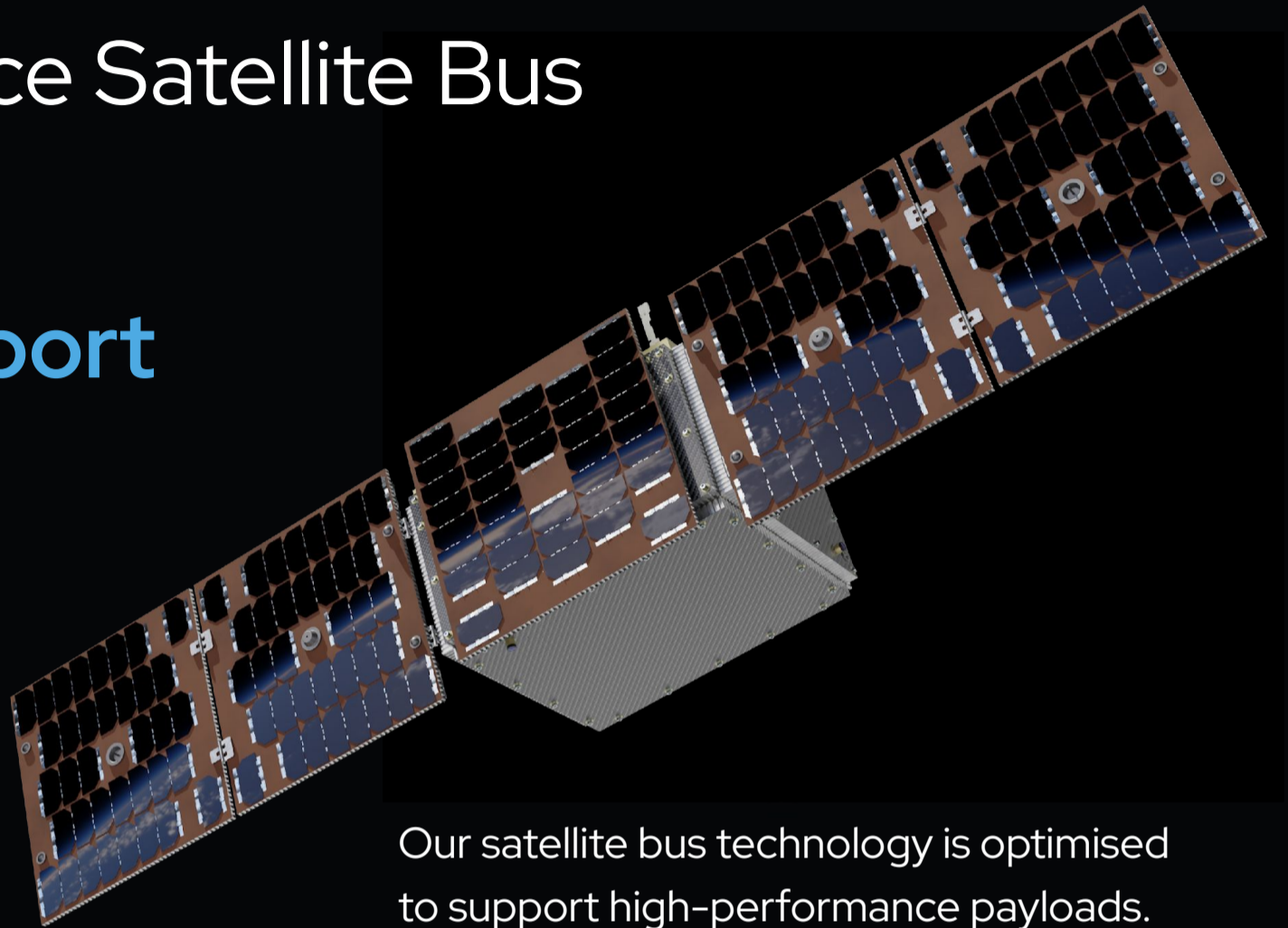## High-Performance Satellite Bus

50 kg bus – 15" port
Class

5 years
Lifetime

Up to 300 Wh
Energy storage

Our satellite bus technology is optimised to support high-performance payloads. Designed to fit four satellites on a SpaceX Falcon 9 port.

Technical Specifications

Attitude and Orbit Control

Pointing Control Stability	<0.005°/sec (3-sigma)
Pointing Control Accuracy	<0.01° (3-sigma)
Slew Rate	Up to 12°/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 Isp

Communications

S-Band TMTC	400 kbps down, 150 kbps up
X-Band Data Downlink	2.6 Gbps (peak)

Payload

Available Mass	Up to 50 kg
Available Volume	450 x 450 x 400 mm
Available OAP	Up to 20 W

Electrical Power System

Solar Array Peak Power	113–197 W
Orbit Average Power (OAP)	71–125 W
Peak Power	1.2 kW
Bus Voltage	24.3-32.4V (unregulated)

Electrical Interfaces

TMTC	CANBus, RS422/RS485, GigE
Data	LVDS / SpaceWire / SerDes
Optional High Speed Data Recorder (HSDR)	1 TB