EXCELSIOR

Terran Orbital presents the Excelsior-class spacecraft platform, the entry-level microsat platform. Excelsior is designed as the standard point of departure for missions necessitating two spacecraft from a single 15-inch ESPA or similar interface, allowing efficient build-out of constellations.

Excelsior shares a common EPS architecture with the larger spacecraft in the product line while providing redundancy in key components. Terran Orbital's entire line of satellite buses shares the same avionics and GNC algorithms.

The Excelsior allows maximum payload volume and a large solar array while providing low launch costs. This class also gives it a power advantage over the nano platforms. It includes a propulsion bay accommodating EP, Hydrazine, or a mix of propulsion systems.

Terran Orbital employs top-of-the-line automation and modern manufacturing processes to support the delivery of hundreds of buses annually. From order to launch, in quantities from one to a constellation of one hundred, Terran Orbital accelerates the delivery of mission solutions.

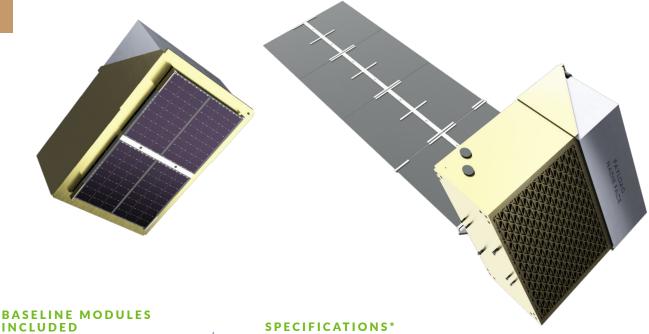


- Build-out constellations faster with the ability to launch two satellites per ESPA port
- Delivers higher power-to-payload ratio than nano-class platforms
- Based on hardware with significant flight heritage





EXCELSIOR



INCLUDED

- Watchdog
- Backplane
- Flight Computers (2)
- 66V Battery Modules (2-4)
- 66V MPPT (1-2)
- 66V Load Controller
- 28V Low-power Point-of-Load (varies)
- 28V High-power Point-of-Load (varies)
- Coarse Sensors (2)
- Gyro Assembly
- Star Trackers (3)
- **GPS (2)**
- Magnetorquers (3)
- Reaction Wheels (3)
- LDRR (2)
- MDR (2)

Configuration	

Applications	
Applications	

Native Orbits

Launch Mass (Wet)**

Available Payload Mass

Max Solar Array Power

Redundancy

Power System

Communication Data Rate

Propulsion

Pointing Accuracy

Hal	f-F	SPA

LEO

400km-1200km

up to 125kg

50kg

500W

Single-string

66V sys power, 28V, 12V, and 9V rails available

S-band: 125 Kbps uplink

2 Mbps downlink

X-Band: 650 Mbps downlink

400s Isp standard

10 to 50 arcseconds higher accuracy available

^{*} For additional spacecraft specifications or to configure a platform for your requirements, please contact a sales professional. maximum mass may not be supported on all launch vehicles or with all deployers.



