

AMBASSADOR

The Ambassador is Terran Orbital's premier ride-share spacecraft platform supported by the ESPA-Grande or similar interface. This spacecraft offers increased deck area to accommodate the largest payloads with a total spacecraft mass of up to 500kg.

Ambassador comes with Terran Orbital's standard mini satellite EPS architecture and builds off the entire product line of spacecraft platforms with the same avionics and GNC algorithms. The reaction wheels on the Ambassador have been sized to allow the spacecraft to maintain agility. The platform is designed from the ground up to be compatible with rideshare requirements.

Ambassador supports commercially available or custom payloads and offers optional Type 1 encryption for military-grade security. It includes a propulsion system ideal for phasing a constellation into its mission orbit, station keeping, and disposal. The Ambassador was designed for the Space Development Agency's Tranche 1 Transport Layer.

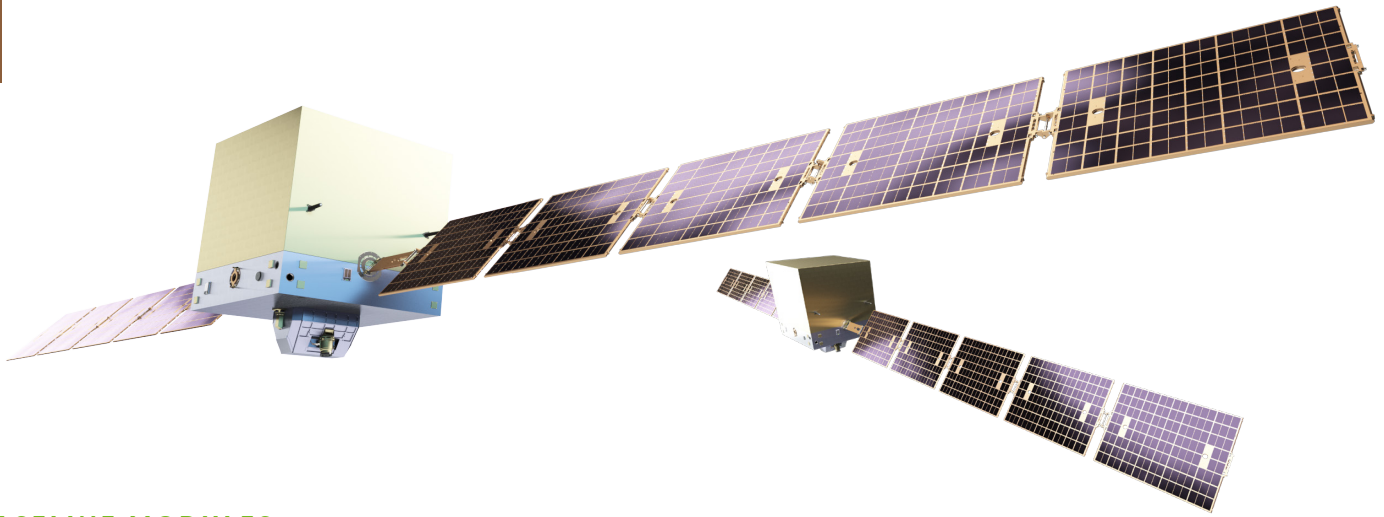
Terran Orbital employs top-of-the-line automation and modern manufacturing processes to support the delivery of hundreds of buses annually. From order to launch, in quantities from one to a constellation of one hundred, Terran Orbital accelerates the delivery of mission solutions.



KEY BENEFITS

- The largest deck area allowed by an ESPA-Grande interface for rideshare missions
- Top offering for the DoD/Intel community with our largest available payload and optional Type 1 encryption

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BASELINE MODULES INCLUDED

- Flight Computers (2)
- Watchdog
- Backplane
- 66V Battery Modules (8-12)
- 66V MPPT (2-3)
- 66V Load Controller
- 28V Low-power Point-of-Load (varies)
- 28V High-power Point-of-Load (varies)
- Coarse Sensors (4)
- Gyro Assembly
- Star Trackers (3)
- GPS (2)
- Magnetorquers (3)
- Reaction Wheels (4)
- LDRR (2)
- MDR (2)

SPECIFICATIONS*

Configuration	ESPA-Grande
Applications	LEO
Native Orbits	400km-1200km
Launch Mass (Wet)**	up to 500kg
Available Payload Mass	up to 200kg
Max Solar Array Power	1.5kW
Redundancy	Dual-string
Power System	66V System Power, 12V, and 9V rails available
Communication Data Rate	S-band: 125 Kbps uplink 2 Mbps downlink X-Band: 650 Mbps downlink
Propulsion	1150s hall effect standard options available
Thrust	17mN
Payload Deck Area	104 cm x 112 cm
Pointing Accuracy	10 to 50 arcseconds higher accuracy available

* For additional spacecraft specifications or to customize a platform for your requirements, please contact a sales professional.

**maximum mass may not be supported on all launch vehicles or with all deployers.

