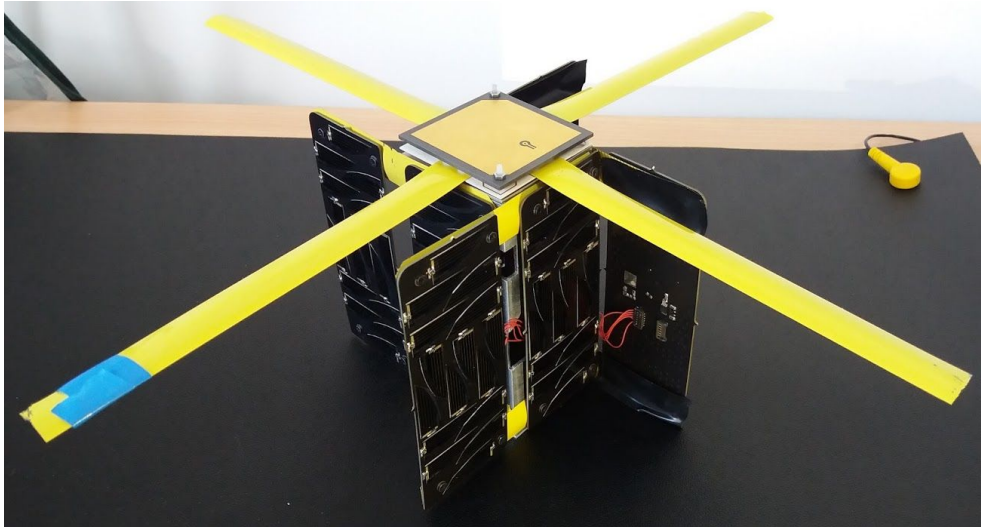


Unicorn-1 Platform

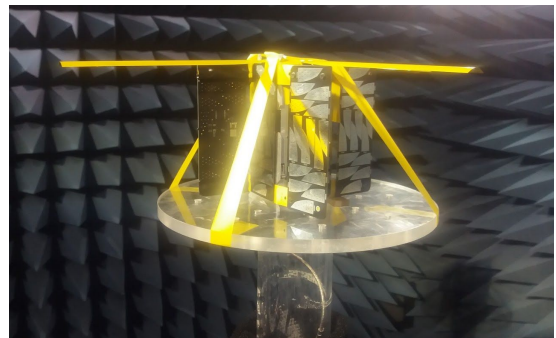


Alba Orbital has designed, built, and tested the Unicorn-1 Platform in partnership with the European Space Agency. The 2p PocketQube platform will gain flight heritage on the Unisat-7 mission, launching in H1 2018. Below are the subsystems of the platform:

- Alba EPS v3.0
- Alba OBC v2.0
- Alba Solar Panels, 4 Fixed, 4 Deployable
- Radiobro UHF Radio 9600bps 1W TX power
- Alba UHF Deployable Turnstile Antenna
- Alba S-Band Patch Antenna
- Alba 2p Structure
- **Payload:** S-band Inter-Satellite Radio Module - 3500bps to GEO

Features Include:

- Passive attitude stabilisation
- PQ60 compatible (see www.pq60.net)
- 3.3V, 3.6V, 5V switchable power lines available
- 3.5Wh li-ion battery
- I2C, UART, SPI protocols available
- Flash memory with expandable microSD card slot
- 9-axis IMU, 24 MHz processor, RTC
- Platform mass 400g
- 100g available payload mass (1p payload volume)
- 1W On-Orbit Average Power



We are actively working with customers to tailor the Unicorn-1 platform to their mission requirements. If you would like more information, please email ***contact@pocketqubeshop.com***

