

THE AGE
OF

ADVANCING POCKETQUBE TECHNOLOGY



albaorbital

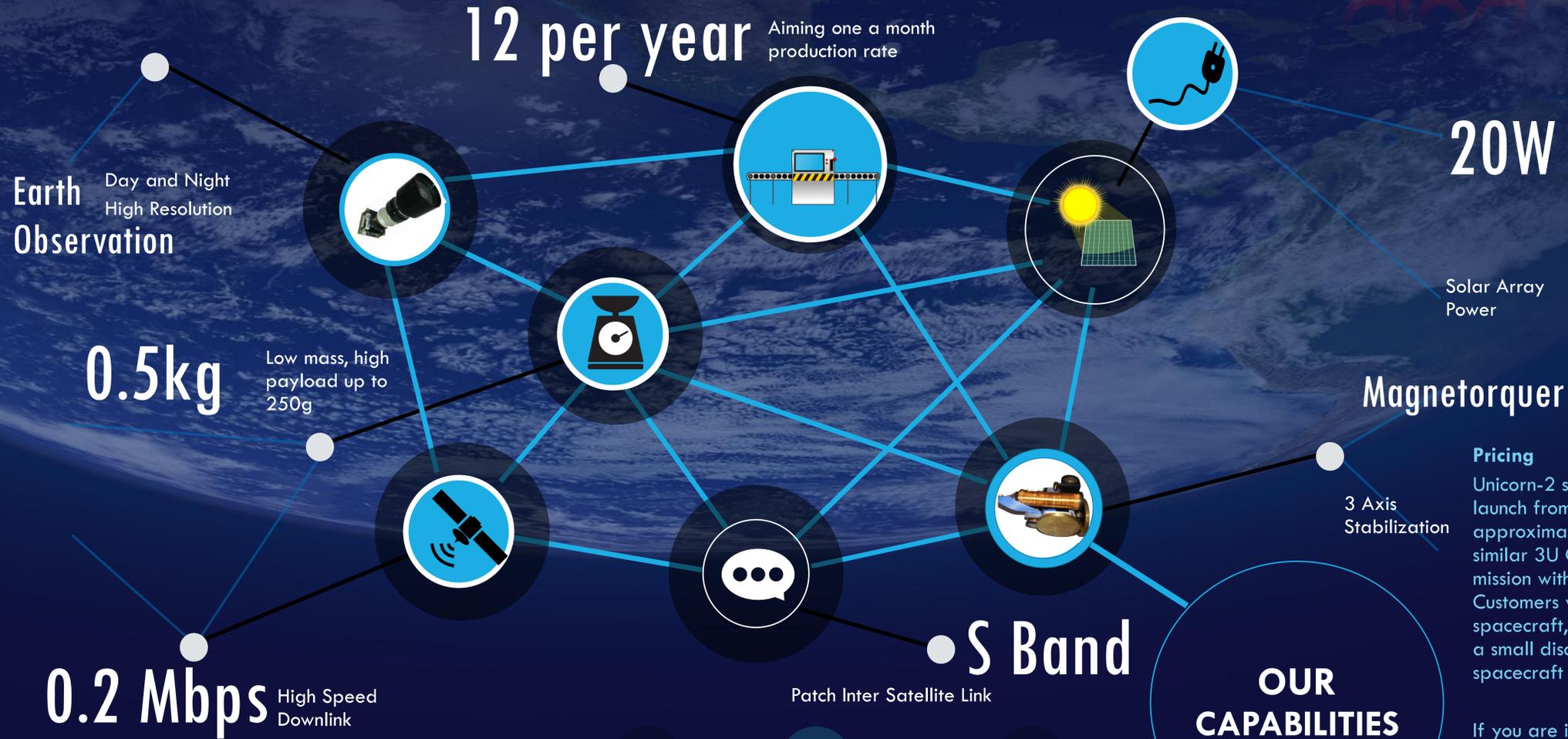
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PocketQube Technology

The PocketQube Standard (5cm cube) is a quickly advancing technology branch which can trace its origins back to the CubeSat standard. The community has grown from a handful of builders to in excess of 25 with most of the developments coming from Europe. Alba has pioneered standardized deployers called AlbaPods, capable of launching 6p and 96p worth of up mass. 9 PocketQubes are scheduled to launch in 2019 on two separate Alba Launch Clusters, offering the community an outlet to get to orbit regularly for the first time. In addition, Alba has developed the most advanced PocketQube in its class, Unicorn-2. Unicorn-2 can generate 20 watt peak, 10-15w OAP, 200kb/s downlink and 5 degrees pointing on a full ADCS.

AlbaPod V2 Deployer

Need a launch for your PocketQube Satellite? We can find you opportunities to get your satellite flown. The secondary payload market allows small satellites to be flown alongside other satellites. Existing launch brokers have typically not been interested in PocketQube, as you need a large number of satellites to fill any launch vehicle. PocketQubes launch services significantly undercut existing CubeSat prices to LEO (from approx. \$100k for 1U/\$300k for 3U to 25k euro for a 1p), democratizing access to space.



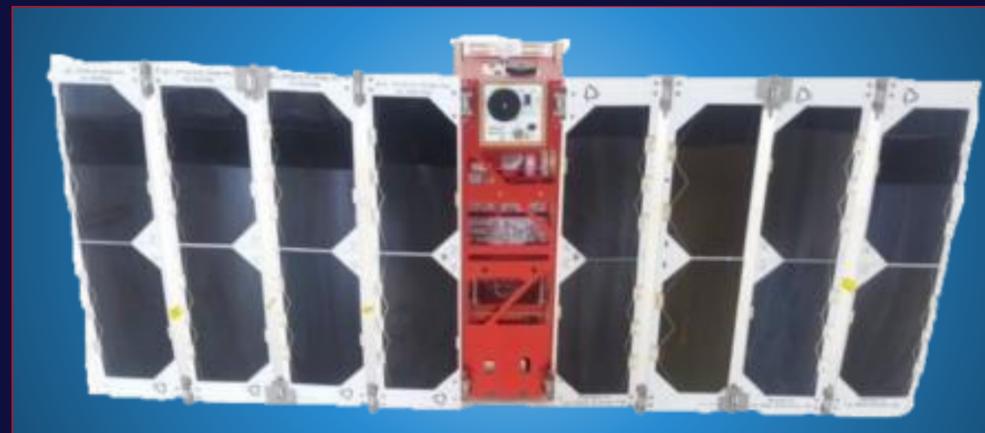
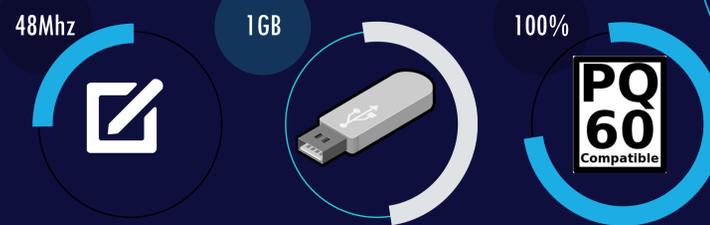
0.2 Mbps High Speed Downlink

Unicorn-2 Platform

In partnership with the European Space Agency (ESA), Alba Orbital has developed an advanced 3p PocketQube platform called Unicorn-2. The goal of the platform is to get 3U CubeSat performance on a PocketQube. We save satellite operators over 50% of the cost by using Unicorn-2 instead of a standard 3U CubeSat for Hardware and Launch.

The MOST POWERFUL PICOSAT EVER CREATED

Unicorn-2 boasts the world's first Pico or Nano-satellite Quadruple deployable solar panel. This creates in excess of 19 watts peak power (19.96w on standard version), with standard missions generating 10-15 watts on orbit average. Payloads have up to 5 watts available per orbit via a 3v3, 5, or 12v line rated for up to 5 amps. Our nominal configuration has 14.8 watts of storage available via two Lithium-Ion batteries, mounted externally to increase payload volume. Unicorn-2 is one of the world's best performing satellites as measured by power to weight.



Pricing
Unicorn-2 starts from 199k euro, with launch from 60k euro. This is approximately 50% the cost of a similar 3U CubeSat (500k euro) mission with launch. For Unicorn-2 Customers who buy more than one spacecraft, we may be able to offer a small discount assuming all spacecraft are identical.

If you are interested in using the Unicorn-2 platform for your mission, please get in touch: contact@pocketqubeshop.com

20 Watts

On orbit Peak power in a pocket sized satellite.

0.2 Mbps

S-band high speed downlink at up to 1W TX power. To be expanded in accordance with demand.