

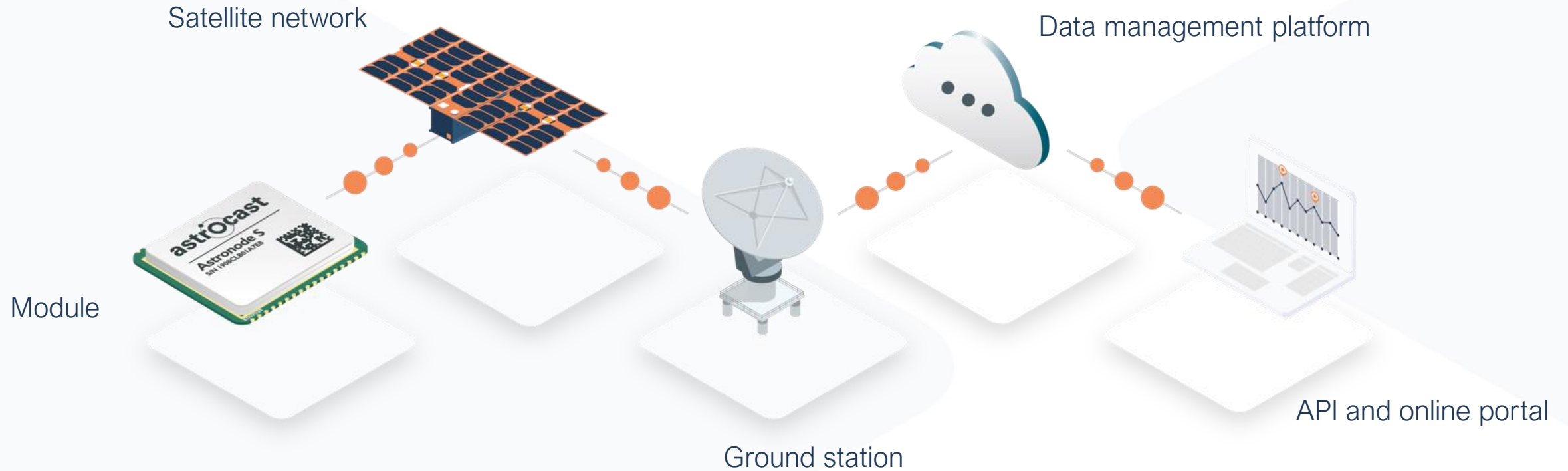


The IoT Network for the Planet

Telecom ParisTalk

Fabien Jordan - CEO Astrocast

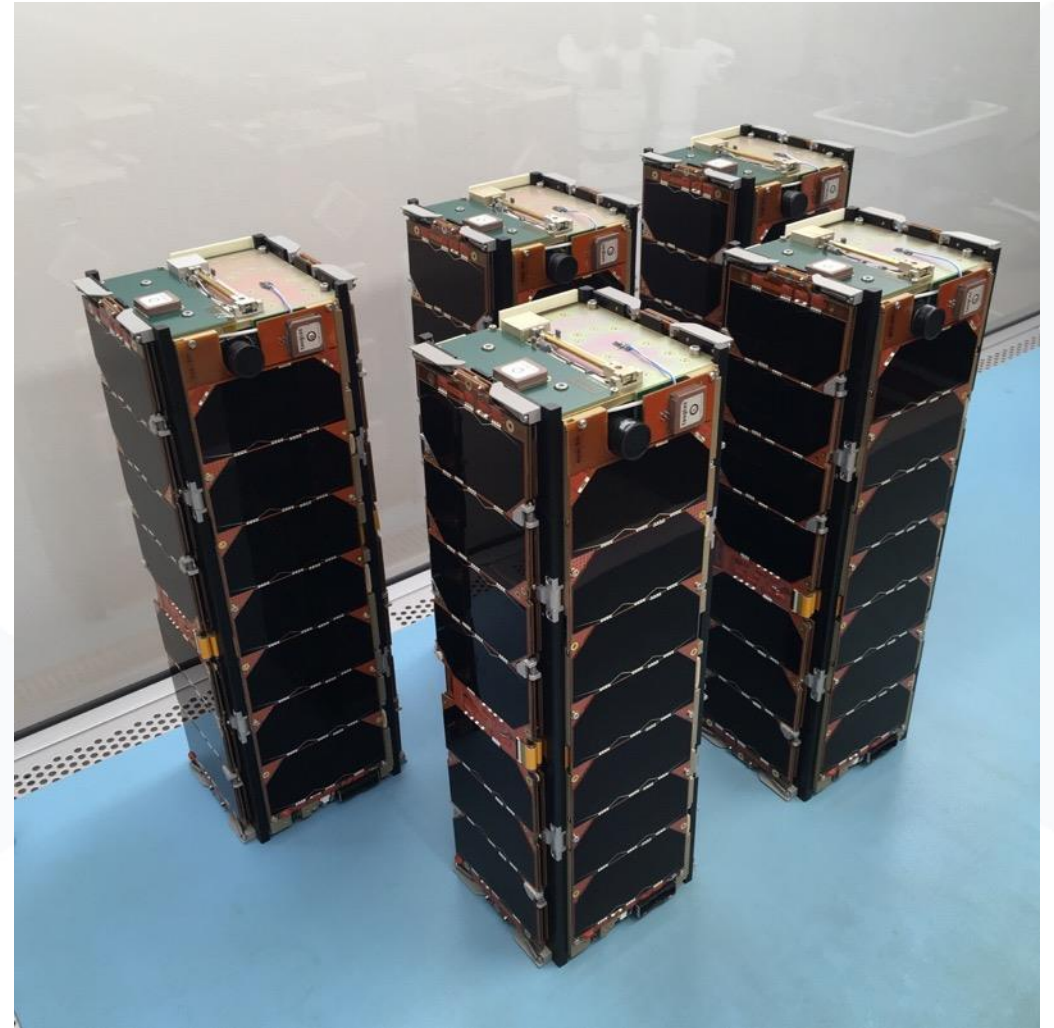
The different segments of nanosatellite IoT operator

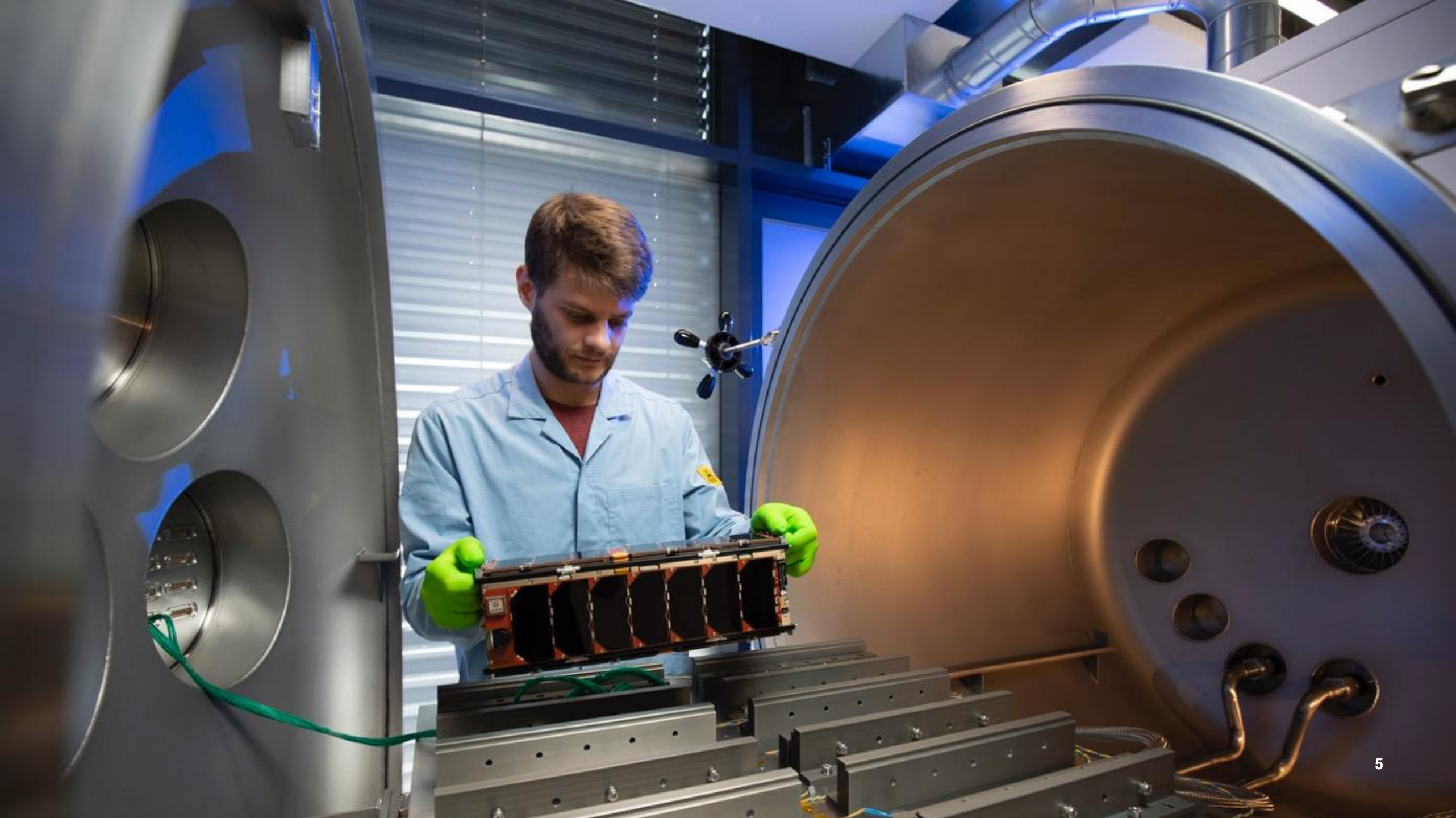


Satellite IoT markets



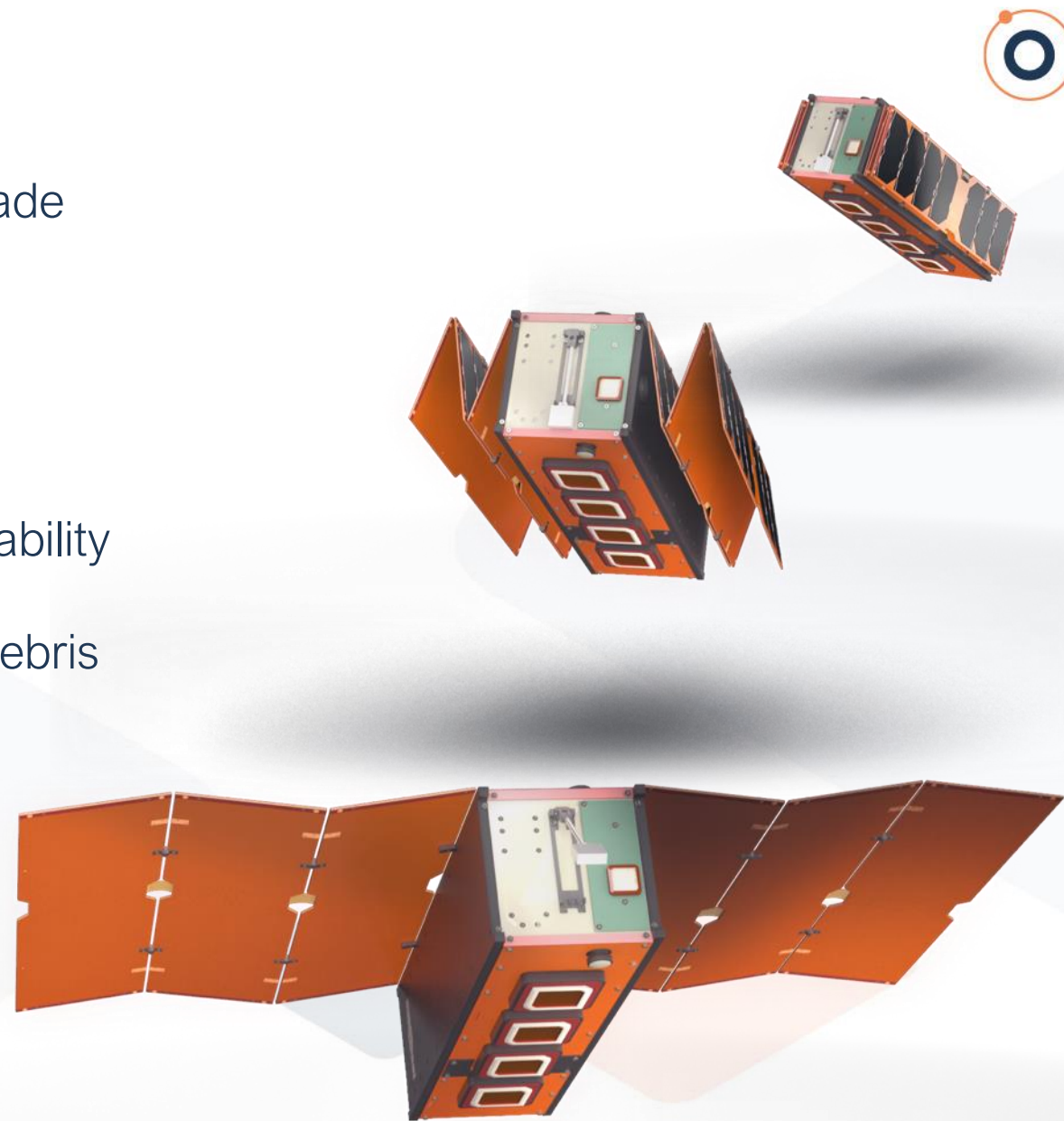
NewSpace and Nanosatellite Revolution





Astrocast Constellation

- 80 state-of-the-art nanosatellites, 5kg, Swiss-made
- LEO, sun-synchronous and equatorial orbits
- Redundancy of critical satellite components
- Extra capacity in orbit, guaranteeing service reliability
- Propulsion and deorbiting capabilities to avoid debris in space
- Controlled lifetime of 3-5 years
 - To keep the best performance in orbit
 - To allow new features to be added to the network





Collaborations with European Partners



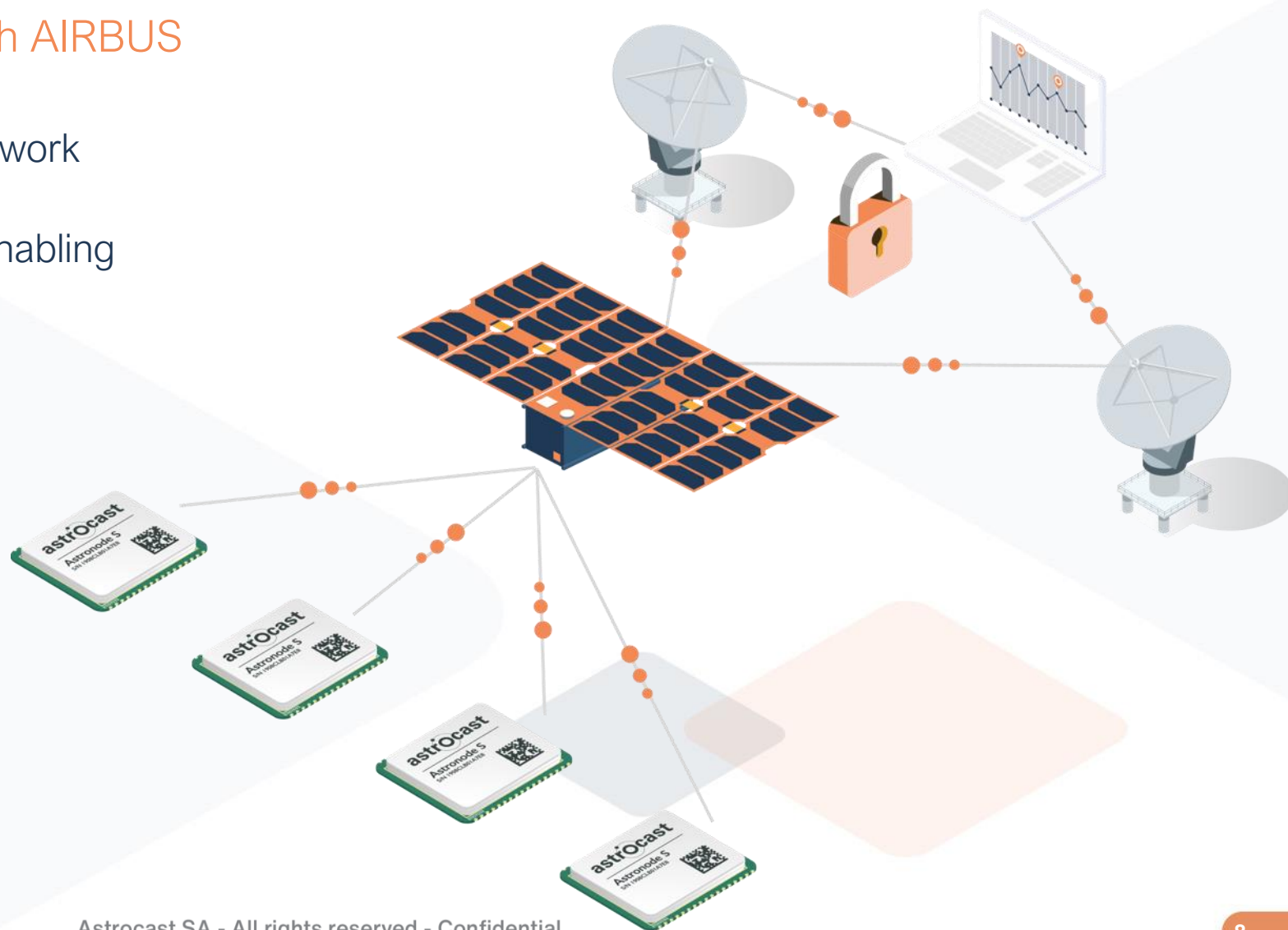
- Data protocol, co-developed with AIRBUS

- Optimized for LEO satellites network
- Bidirectional communications enabling

- Acknowledgments
- Asset commands
- Deployment of security patches
- Software updates

- Features

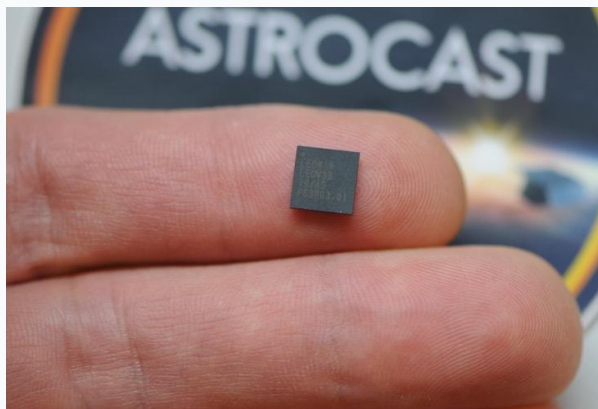
- Unicast/Multicast capabilities
- 256-bit AES encryption
- Low latency (<15min)



Collaborations with European Partners



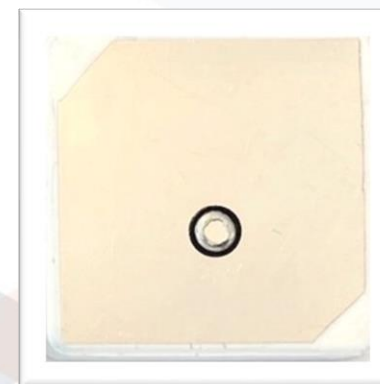
- Chipset, co-developed with CEA/LETI
 - Proprietary low-power L-band chipset
 - Chip is integrated into a module
 - Fully optimized for direct-to-satellite IoT applications



Chipset



Module



Patch Antenna

The logo for astrocast features the word "astrocast" in a dark blue, sans-serif font. The letter "O" is replaced by an orange circular graphic consisting of a thin line and a small solid dot at the top, resembling an orbit or a planet.

astrocast

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