

ARTICA DRAG SAIL

DESIGN

ARTICA (Aerodynamic Re-entry Technology In CubeSat Applications) is a compact deorbiting system, fully compatible with the CubeSat standard and easily integrable with any satellite structure.

With its lightweight and simple design, ARTICA reduces orbital lifetime in compliance with international deorbiting regulations.

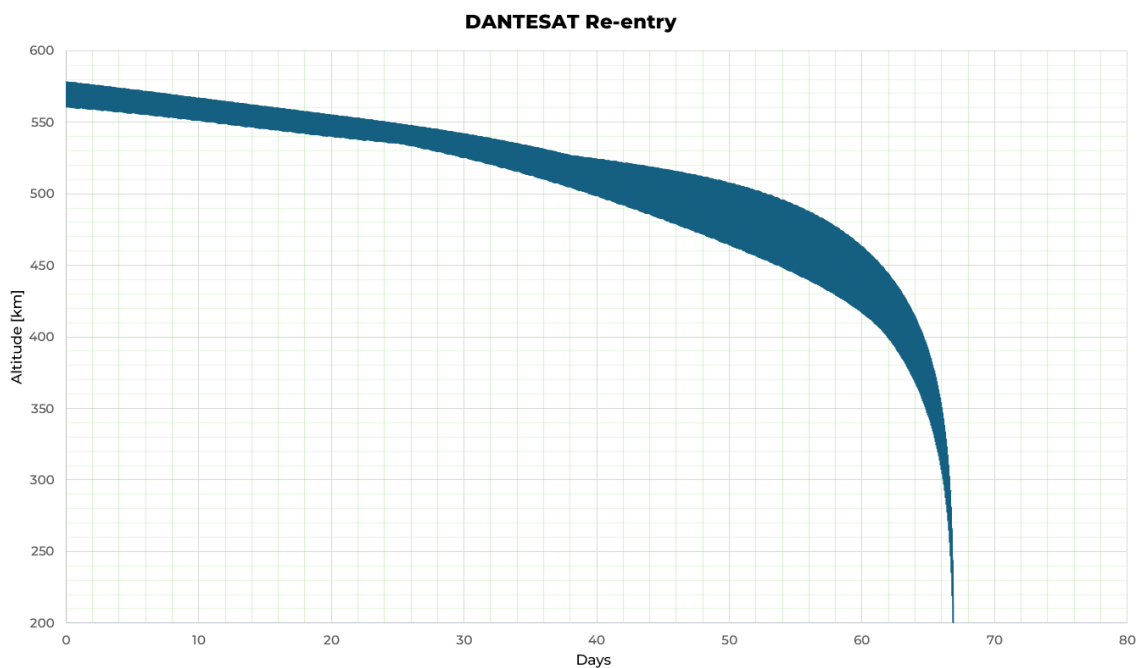


The system relies on a deployable drag sail: by increasing the satellite's aerodynamic surface, atmospheric drag is enhanced, accelerating orbital decay and ensuring a safe and complete destruction of the spacecraft upon re-entry.

The drag sail is deployed through a fully passive, spring-driven system, designed for robustness and fail-safe operation. Thanks to its zero-debris concept, ARTICA guarantees a clean and safe deorbiting process, leaving no fragments in orbit.

MAIN FEATURES

- Compatible with CubeSats up to 16U
- Volume: 0.35U
- PC104 Compatible
- Sail Surface: Up to 2.1 m²
- Mass: 210 g
- De-Orbiting time: less than 5 years at 650km
- Adaptable mechanical interface: 4xM2.5 screws
- Actuating Power Consumption: 6 W
- Feedback Logic: NC/NO upon customization
- Redundant power line
- Reliable spring-based HDRM
- Flight Heritage from 2022



WHERE YOUR MISSION COMES TO LIFE