

## BRICSAT



BRICSAT is a structural solution for building small satellites (CubeSats) with highly modular design by means of 3D printing technique. The innovative production concept allows complete customization of the structural layout, with fast delivery time and reduced costs. The plastic material at the basis of BRICSAT, furthermore, is lighter than standard Aluminium (7075 or 6061) but still performant for aerospace applications and compliant to qualification standards. Structure completely melts during re-entry, thanks to its composition based on low melting temperature material, sensibly improving the space debris mitigation potential of the system.

## Key Features

### Modular and customizable

- Single structural elements can be combined in a highly unlimited way, meeting different payload-related volume requirements

### Reduced mass

- Using light-weight material: the complete structure for a 1U CS has mass lower than 100g

### Fast delivery time

- By means of additive manufacturing and fast production processes

### In-orbit assembly

- By means of 3D-printing technologies

### Reduced overall mission cost

### Space debris mitigation

- Low melting temperature material

## Supported by:



SME Instrument Phase 1