

Data Sheet

Deorbit Module ADEO-M (Medium)



ADEO-M animation

Application Area

Recommended Spacecraft Mass	100 kg up to 700 kg
Orbit Height	200 km up to 900 km

Technical Data

Technology Readiness Level	TRL 6 (by end 2023), TRL 8 (by Q1/2024)		
Export Regulations	ITAR-free		
Module Mass (depending on sail size)	3.5 kg		
Module Size (stowed)	Diameter 25 cm, Height: 15 cm		
Sail Area (adaptable to customer needs)	15 m ² (± 5m ²), separated in 4 sail segments		
Center of Gravity (rel. to ground plane)	0 cm x 0 cm x 8 cm (stowed) 0 cm x 0 cm x 9 cm (deployed)		
Moment of Inertia [kg mm ²] (rel. to CoG)	I _{xx} 19000	I _{yy} 19000	I _{zz} 20000
1 st Eigenfrequency	> 150 Hz		
Mechanical Interface	8 x M6 (holes Ø6,3 mm, at the diameter of 235 mm)		
Deployment Principle	Spring-based, constant deployment		
Activation System	Pyro Cutter		
Electrical Interface (without connectors)	4 wires (0.9 mm each, redundant)		
Electrical Power	2 V - 12 V @ 2.5 A, for 25 msec		
Autonomous Functionality (deployment, when satellite out of operation)	Optional on request		

