



SHOCKLESS HOLD AND DEPLOYMENT MECHANISM

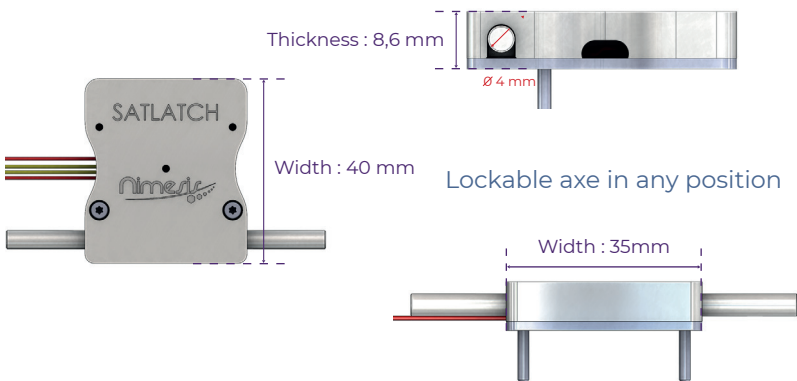
HIGH-PERFORMANCE MECHANISM FOR SPACE
APPLICATIONS

Qualification begin of 2025

- | | | |
|-------------------------|--------------------------|--------------------------|
| ✔ Resettable | ✔ Rapid actuation | ✔ Plug & play |
| ✔ Synchronisable | ✔ Reliable | ✔ Non explosive |



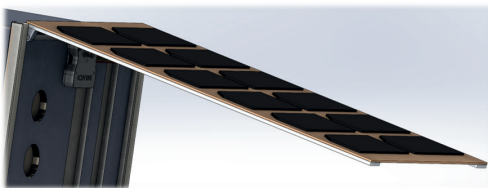
SATLATCH provides an all-in-one solution for the holding and deployment of space structures or payloads



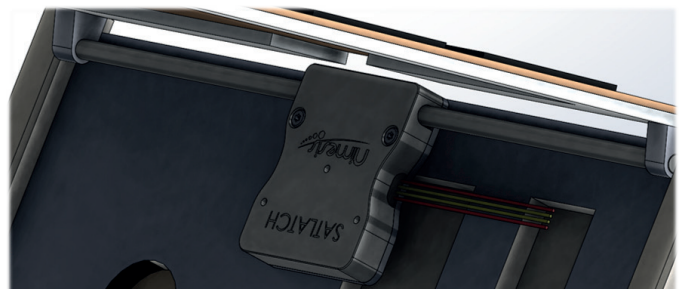
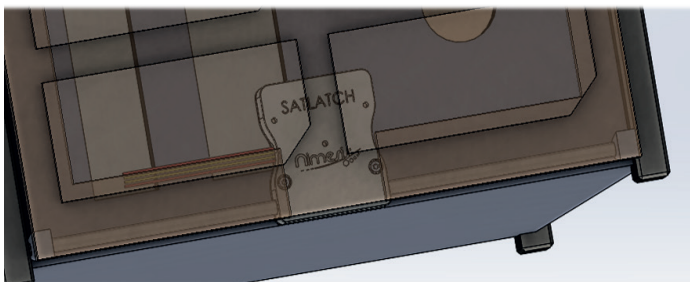
Automatic relocking after activation and deployment

Possibility of using 2 per hinge to double torque performance

TECHNICAL DATA



SATLATCH can be mounted on the outside of the satellite (perfectly suited for cubesats)



OVERVIEW

- Compatible with a wide range of satellites and space systems
- Shockless deployment
- No variation of size between armed and actuated position
- Operational temperature range: from -120°C to +120°C
- Auto-resettable w/o MGSE
- Progressive deployment

FEATURES

- SMA component (Shape Memory Alloy: CuAlNi)
- Diameter of shaft : 4mm
- Max length of shaft : 300mm
- Rotation: 90° and 180°
Other rotation on demand

Customization on demand

Deployment / locking torque (N.m)	>0.3 N.m	
Mass of all the mechanism (g)	40 to 65g	
Resettable In Situ	Up to 10 cycles	
Operational temperature range	[-120°C ; +120°C]	
Liberation time	From 4s to 100s	
Voltage (V)	8V	16V
Voltage range (V)	7 to 8.4V	14 to 16.8V
Current (A)	0,8 to 1,4 A	0.4 to 0.7 A
Power (W)	min 5.96W	max 16.5W

Test report on demand

Qualification expect at the begin of 2025

Lifetime

Vibration: 25g sine, 50.9g rms random
shock 1000gTVAC -120 to +120°C

SATLATCH

