

SMPOD DEPLOYERS

DESCRIPTION

SMPOD is a family of reliable and modular Deployers for CubeSat missions up to 16U. They constitute the interface between the CubeSats and the Launch Vehicle (LV).

Designed for versatility and robustness, SMPOD deployers support single or multiple CubeSat missions across a wide range of configurations.

Two models are currently available:

- **SMPOD03** – for 1U to 3U CubeSats
- **SMPOD16C** – for larger satellites, up to 16U

SMPOD ensures secure retention, reliable deployment, and simple integration — making it a competitive solution for both institutional and commercial launches.



MAIN FEATURES

- Dynamic rail system prevents satellite rattling during launch.
- Independent door control with redundant NEA fail-safe actuation.
- Safe deployment ensured by $>98.5^\circ$ door opening angle.
- Redundant feedback sensors on each slot for real-time deployment confirmation.
- Simplified integration and fast reset procedure.
- Largest lateral clearances on the market.
- TRL9

SMPOD03 – Technical Specifications

CUBESAT SIZE	MAX MASS	TUNACAN VOLUME (Z ⁻)	PROTRUSION X	PROTRUSION Y	PROTRUSION Z	RAIL WIDTH
1U	2.0 kg	Φ 90.0 mm × h 60.0 mm	30.0 mm	30.0 mm	3.5 mm (Z ⁺)	> 6.5 mm
2U	4.0 kg	Φ 90.0 mm × h 60.0 mm	30.0 mm	30.0 mm	3.5 mm (Z ⁺)	> 6.5 mm
3U	6.0 kg	Φ 90.0 mm × h 60.0 mm	30.0 mm	30.0 mm	3.5 mm (Z ⁺)	> 6.5 mm

SMPOD16C – Technical Specifications

CUBESAT SIZE	MAX MASS	TUNACAN VOLUME (Z ⁻)	PROTRUSION X	PROTRUSION Y	PROTRUSION Z	RAIL WIDTH
3U	8.0 kg	Φ 100.0 mm × h 110.0 mm	Ext: 30.0 mm Int: 25.8 mm	30.0 mm	2.0 mm (Z ⁻), 3.5 mm (Z ⁺)	> 6.5 mm
4U	8.0 kg	Φ 90.0 mm × h 60.0 mm	Ext: 30.0 mm Int: 25.8 mm	30.0 mm	2.0 mm (Z ⁻), 3.5 mm (Z ⁺)	> 6.5 mm
6U	16.0 kg	Φ 100.0 mm × h 110.0 mm	44.0 mm	30.0 mm	2.0 mm (Z ⁻), 3.5 mm (Z ⁺)	> 6.5 mm
8U	16.0 kg	Φ 90.0 mm × h 60.0 mm	44.0 mm	30.0 mm	2.0 mm (Z ⁻), 3.5 mm (Z ⁺)	> 6.5 mm
12U	32.0 kg	Φ 100.0 mm × h 110.0 mm	44.0 mm	48.2 mm	2.0 mm (Z ⁻), 3.5 mm (Z ⁺)	> 6.5 mm
16U	36.0 kg	Φ 90.0 mm × h 60.0 mm	44.0 mm	48.2 mm	2.0 mm (Z ⁻), 3.5 mm (Z ⁺)	> 6.5 mm

WHERE YOUR MISSION COMES TO LIFE