

CubeSat Deployers

Flight heritage since 2013



CubeSat
standard
compliant

Custom
solutions
on request

www.isispace.nl

DESCRIPTION

The QuadPack, DuoPack and ISIPOD deployers are the world-leading and most flown CubeSat launch adapters, developed by ISIS- Innovative Solutions In Space to accommodate CubeSats onboard a large variety of launch vehicles, through ISIS' turn-key ISILaunch Services, or with tailored integration support. The QuadPack and ISIPOD deployer product lines can accommodate any type of CubeSat or nanosatellite, from 1U, 2U, 3U, 6U up to 12U and 16U, while custom formats and volumes can be quickly realized. Each ISIS deployer provides simple, well defined interfaces towards the CubeSats internally and the launch vehicle externally, with an optimized balance between internal versus external volume and payload versus deployer mass. All ISIS deployers are fully qualified with flight heritage on 6 different launch vehicles so far.

ISIPOD product line

FEATURES

- No charging needed, does not contain batteries
- Allows for up to 9.0 mm side volume and a large “tuna can”
- FAR/ITAR free design
- Redundant deployment signals
- Easily resetable Hold Down and Release Mechanism
- Long storage life
- Cubesat umbilical interface connector available as special option



1-Unit ISIPOD

2-Unit ISIPOD

3-Unit ISIPOD

MOUNTING OPTIONS

PROPERTIES

Deployer Mass
Maximum Payload Mass
Payload Volume (examples)

Parallel

1.5kg
2kg
1 x 1U

Parallel

1.75kg
4kg
1 x 2U
2 x 1U

Parallel

2kg
6kg
1 x 3U
3 x 1U
1 x 2U + 1 x 1U

AVAILABILITY

Sold separately

Sold separately

Sold separately

FLIGHT HERITAGE

Year
Vehicles

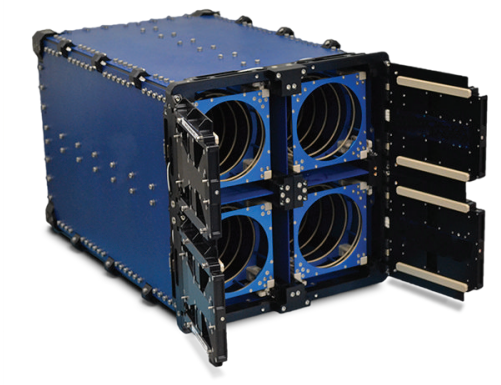
since 2013
Vega

since 2015
PSLV

since 2013
PSLV, Antares, Soyuz,
Dnepr, LM-2D, Atlas V

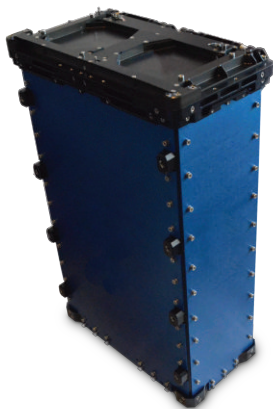
QUALIFICATION OVERVIEW

Test	QT
Functional	✓
Vibration	✓
Mechanical Shock	✓
Thermal Cycling	✓
Thermal Vacuum	✓
*Levels available on request, ECSS/NASA GEVS compatible	



QUADPACK product line

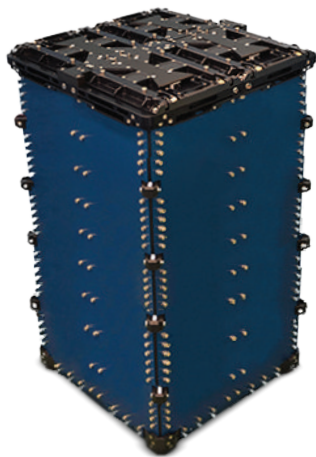
- No charging needed, does not contain batteries
- Allows for up to 10.0 mm side volume and a large “tuna can”
- Dynamic rail system clamps satellites inside for best load transfer
- FAR/ITAR free design
- Redundant deployment and telemetry signals
- Ultra light burnwire based Hold Down and Release Mechanism
- Access hatches in the door to allow for umbilical connection



6-Unit DuoPack*



12-Unit QuadPack*



16-Unit QuadPack

Parallel	Parallel and perpendicular	Parallel and perpendicular
4kg - 4.5kg 12kg 1 x 6U 2 x 3U	6 - 7.5kg 24kg 1 x 12U 2 x 6U 4 x 3U	7.5 - 9kg 24kg 1 x 16U 2 x 8U 4 x 4U
Sold in combination with ISILaunch Services or integration support *also available in XL variant	Sold in combination with ISILaunch Services or integration support *also available in XL variant	Sold in combination with ISILaunch Services or integration support
since 2015 PSLV, LM-2D	since 2014 Dnepr, PSLV, Soyuz	Manifested

LAUNCH CANISTER CONFIGURATIONS

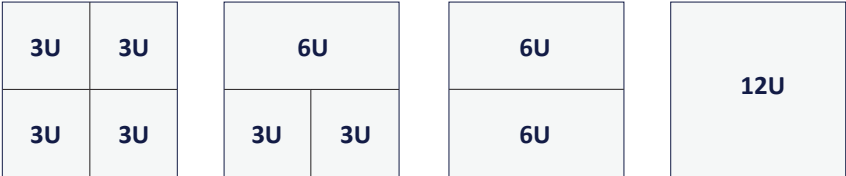
ISIPOD



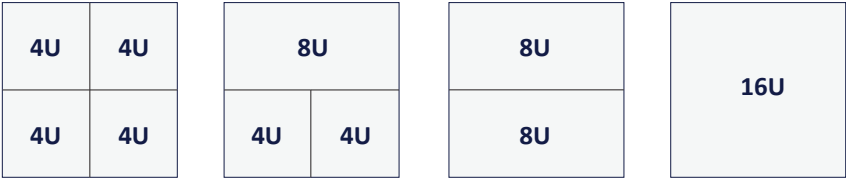
DuoPack



QuadPack 12U

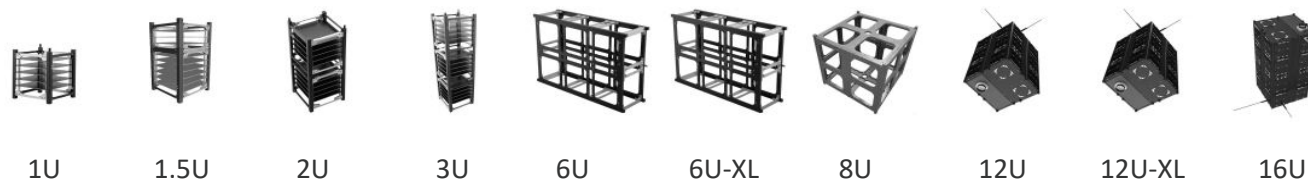


QuadPack 16U



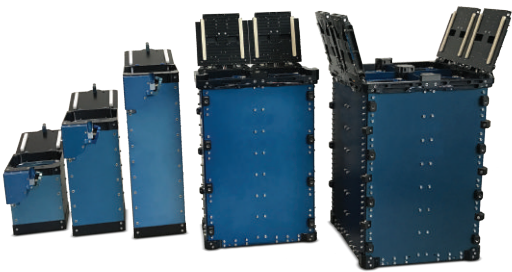
SUPPORTED CUBESAT SIZES

The supported ISIS ‘standard’ CubeSat sizes and envelopes for both its CubeSat Structures product line and its CubeSat deployer product line are outlined below.



CUSTOM SOLUTIONS

ISIS’ CubeSat deployers are available in a variety of sizes ranging from 1U up to 16U. However, as every mission is unique, if one of our standard deployers does not fit your mission requirement, ISIS can develop custom solutions that meet any project specification.



This document is subject to change without notice. Latest information is on www.isispace.nl

