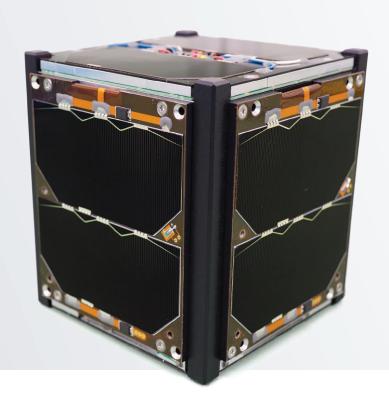
ISIS 1U CubeSat

Standard platform for turn-key solutions





DESCRIPTION

The ISIS 1U CubeSat has been designed to provide a complete solution to teams looking for affordable small satellite technologies. It is delivered together with its ground support equipments and a full software environment to program and operate the satellite.

Such solution can be used in the scope of educational programs and missions with light requirements.

1U COMPONENTS

Basic Bus Subsystems

ISIS 1U Structure
ISIS Antenna Subsystem
ISIS EPS and Battery Pack
ISIS VHF/UHF Transceiver
ISIS On Board Computer
ISIS Solar Panels

In orbit since 2010
In orbit since 2017
In orbit since 2016
In orbit since 2013
In orbit since 2017

Software

ISIS Subsystems Interface Library
ISIS Mission Support Library
Flight software upon request
Ground radio GUI

In orbit since 2013
In orbit since 2013

Ground Support Equipment

Mechanical GSE Electrical GSE Radio GSE



APPLICATIONS

CAPACITY BUILDING/EDUCATION

The ISIS 1U CubeSat offers by default a set of functionalities and sensors.

Transponder - Live re-transmission of voice messages **Radio** - Receive, store and send data back to Earth **Magnetometers** - Measure the magnetic environment in space **Gyroscope/Photodiodes** - Measure the attitude of the satellite **Termo-resistors** - Measure the temperature across the satellite

PAYLOAD DEVELOPMENT

CubeSat developers can mechanically and electrically interface and test the platform with third-party or custom-made payloads such as a small camera or a radiation monitoring sensor.

PAYLOAD AVAILABLE RESOURCES

		IC	

Volume available Mass available

ADCS

Capability

CDHS

Data bus Storage

POWER

Average payload power

Power bus

COMMUNICATION

Uplink Downlink 0.4 U

700 g

Detumbling

I²C / RS-232 2 x 2 GB

400 mW

3.3 V / 5 V (2A max)

9.6 kbps (VHF) 9.6 kbps (UHF)



ADDITIONAL SERVICES



LAUNCH SERVICES

Fully compatible with ISIS Deployers. www.isilaunch.com



GROUND STATIONS

Fully compatible with ISIS VHF/UHF Ground Segment



OPERATIONS

Satellite comissioning and operations support



TRAINING

CubeSat mission design, AIV and operations

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



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