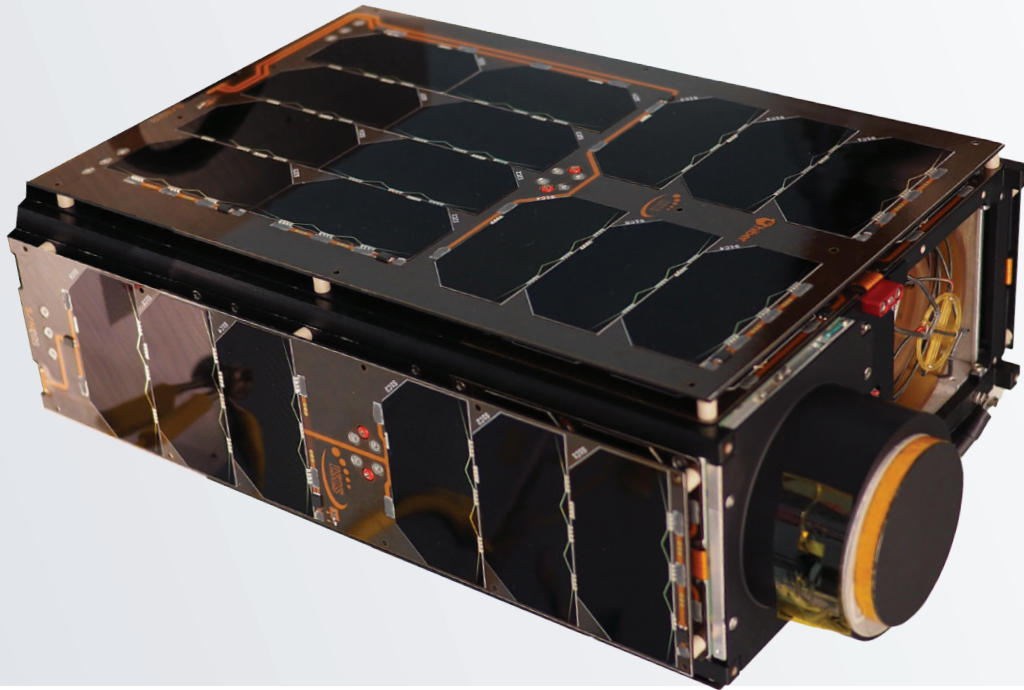


ISIS 6U CubeSat

Modular platform for turn-key solutions



DESCRIPTION

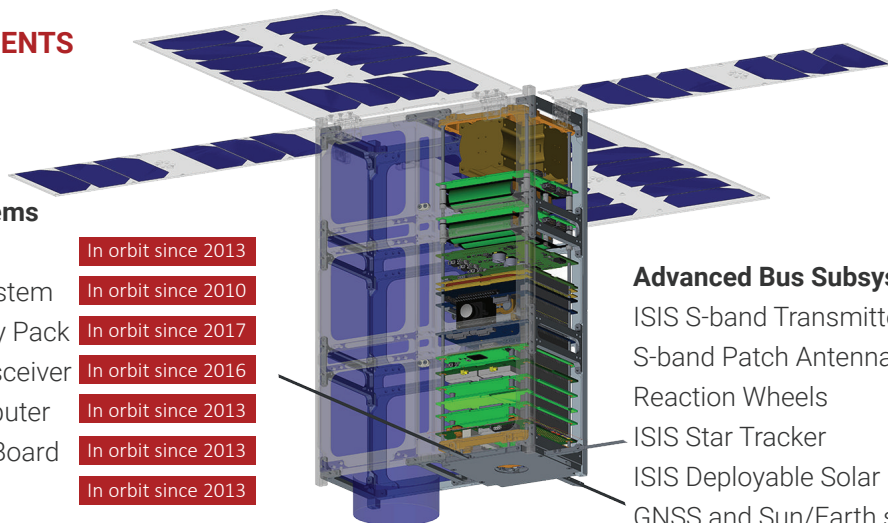
The ISIS 6U CubeSat bus is a flight proven, cost-effective modular platform that can be utilized for fast turn-around nanosatellite missions for a wide range of applications, from satellite based AIS, Earth Observation and astronomy to microgravity research missions.

At ISIS - Innovative Solutions In Space we fully understand that your mission is one-of-a-kind with specific and unique needs and requirements. Therefore, based on our experience with various unique missions, we have developed a 6U CubeSat platform with the right balance between performance, flexibility, payload compatibility and of course reliability and cost. With our team building the platform you need, your team can focus on the payload and mission preparation, reducing your overall time-to-orbit significantly.

6U BUS COMPONENTS

Basic Bus Subsystems

ISIS 6U Structure	In orbit since 2013
ISIS Antenna Subsystem	In orbit since 2010
ISIS EPS and Battery Pack	In orbit since 2017
ISIS VHF/UHF Transceiver	In orbit since 2016
ISIS On Board Computer	In orbit since 2013
ISIS Magnetorquer Board	In orbit since 2013
ISIS Solar Panels	In orbit since 2013



Advanced Bus Subsystems

ISIS S-band Transmitter	In orbit since 2017
S-band Patch Antenna	In orbit since 2017
Reaction Wheels	In orbit since 2014
ISIS Star Tracker	In orbit since 2018
ISIS Deployable Solar Panels	In orbit since 2013
GNSS and Sun/Earth sensors	In orbit since 2014

Software

ISIS Subsystems Interface Library	In orbit since 2013
ISIS Mission Support Library	In orbit since 2013
Flight software upon request	

PAYLOAD AVAILABLE RESOURCES

	Basic bus	Advanced bus
MECHANICAL Volume available: Mass available:	3U 6kg	2.5U 5.5kg
ADCS Pointing accuracy:	3°	0.1°
CDHS Data bus: Storage:	I ² C / SPI / USART / UART Up to 64GB	I ² C / CAN / SPI / USART / UART Up to 64GB
POWER Average payload power: Power bus:	10 W 3V3 / 5V / 16V (2A max)	from 20 W 3V3 / 5V / 16V (2A max)
COMMUNICATION TT&C (VHF/UHF) Payload data downlink (S-band)	9.6 kbps -	9.6 kbps 3.4 Mbps

TURN-KEY SOLUTIONS

Are you rather looking for a fully integrated turn-key satellite solution? Innovative Solutions In Space can offer you such a solution based on a 6U CubeSat platform for satellite-based AIS ship tracking, Earth observation or IoT/M2M applications.

Ship tracking  TRITON  <p>Payload ISIS AIS Receiver Low power consumption < 2W Flight heritage since 2013</p> <p>Bus configuration Basic Bus Software available upon request</p>	Earth observation  GAIA  <p>Payload Visible / Multispectral images GSD: 10- 40 m @ 500 km Flight heritage since 2017</p> <p>Bus configuration Basic / Advanced Bus Software available upon request</p>	IoT / M2M  HERMES  <p>Payload Configurable receiver High power capabilities Enabling on-board processing</p> <p>Bus configuration Basic Bus / Advanced Bus Software available upon request</p>
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ADDITIONAL SERVICES



LAUNCH SERVICES

Fully compatible with
ISIS Deployers.
www.isilaunch.com



GROUND STATIONS

Fully compatible with
ISIS VHF/UHF/S-Band
Ground Segment



OPERATIONS

Satellite commissioning
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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