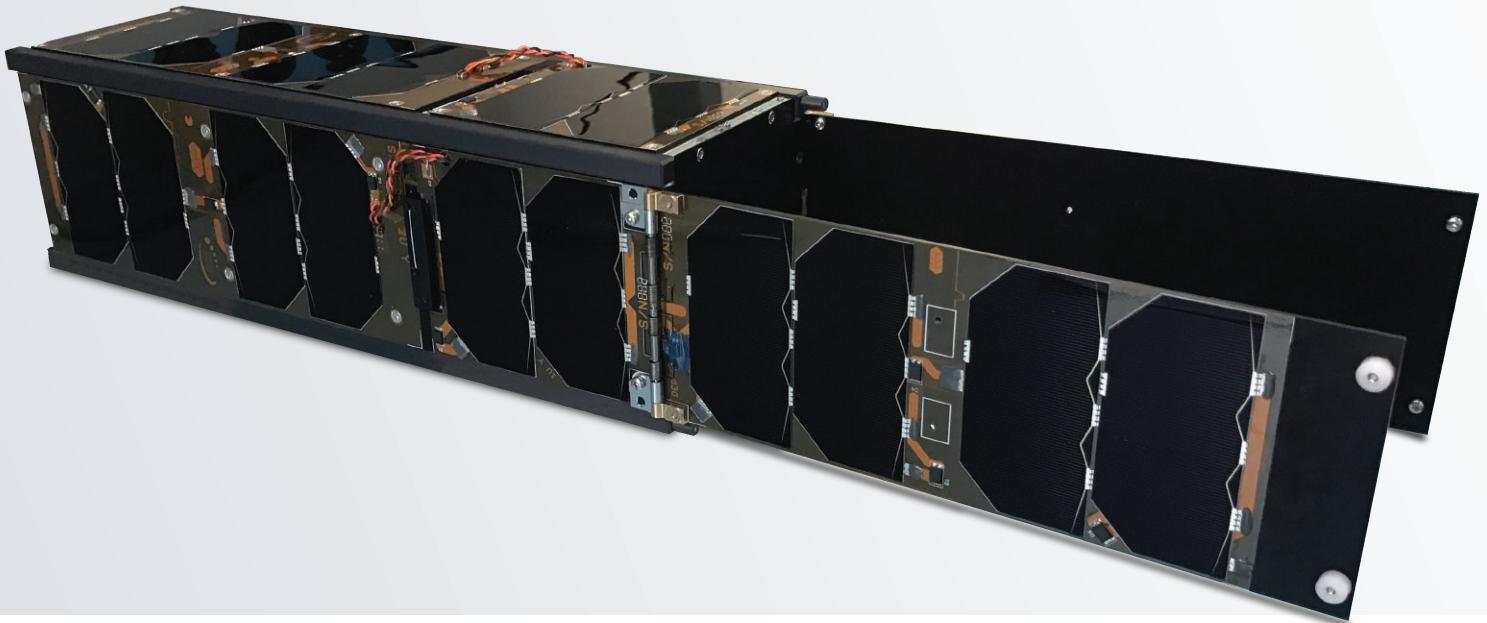


# ISIS 3U CubeSat

Modular platform for turn-key solutions

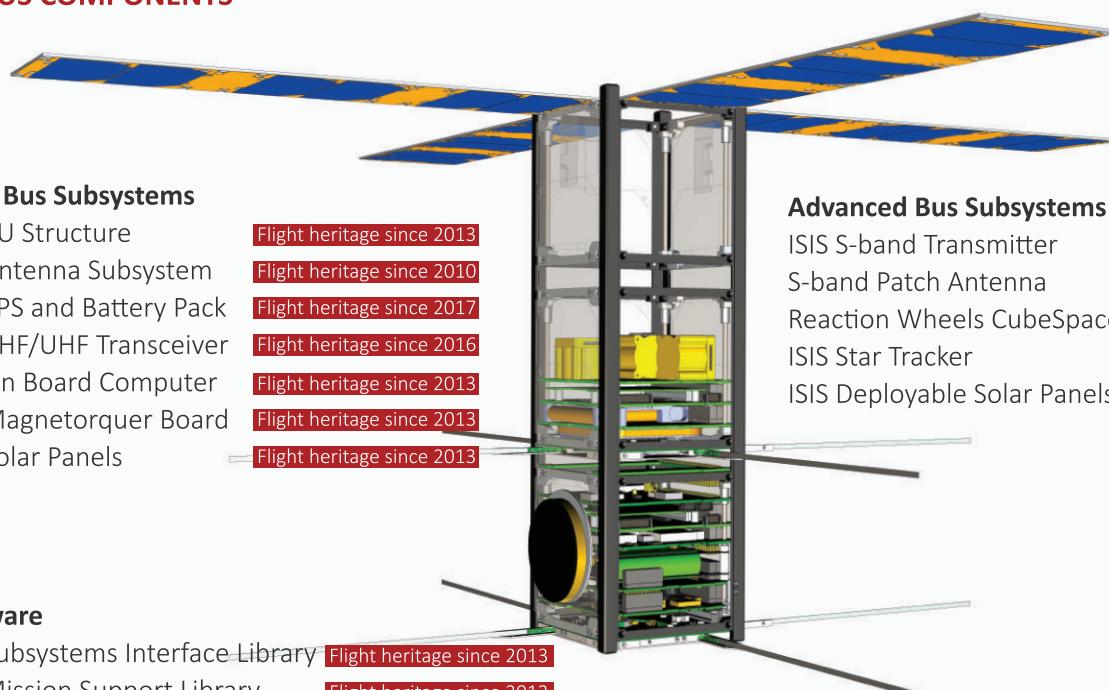


## DESCRIPTION

The ISIS 3U 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 3U 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.

## 3U BUS COMPONENTS



## Software

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

## PAYOUT AVAILABLE RESOURCES

Basic bus		Advanced bus	
Volume available <b>2U</b>	Mass available <b>Up to 2kg/U</b>	Volume available <b>1.5U</b>	Mass available <b>Up to 2kg/U</b>
Capabilities <b>Detumbling / coarse pointing</b>	Pointing accuracy <b>10°</b>	Capabilities <b>Detumbling / fine pointing / tracking</b>	Pointing accuracy <b>Down to 1°</b>
Data bus <b>I<sup>2</sup>C / SPI / UART</b>	Storage <b>Up to 64GB</b>	Data bus <b>I<sup>2</sup>C / SPI / UART / CAN</b>	Storage <b>Up to 64GB</b>
Average payload power <b>Up to 2W</b>	Power bus <b>3V3 / 5V / 8V 2A max per line</b>	Average payload power <b>&gt; 3.5W</b>	Power bus <b>3V3 / 5V / 8V / 12V 2A max per line</b>
VHF/UHF Communication <b>9.6 kbps</b>		S-band Communication <b>3.4 Mbps</b>	

  
**Mechanical**  
**KG**  
  
**ADCS**  
  
**CDHS**  
  
**Power**  
  
**Downlink**

## 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 3U CubeSat platform for satellite-based AIS ship tracking or Earth observation applications.

**Ship tracking**

 **TRITON**

**Payload**  
ISIS AIS Receiver  
Low power consumption < 2W  
Flight heritage since 2013

**Bus configuration**  
Basic Bus  
Advanced Bus  
Software available upon request



**Earth observation**

 **GAIA**

**Payload**  
Visible / Multispectral images  
GSD: 30 m  
Flight heritage since 2017

**Bus configuration**  
Basic Bus  
Advanced Bus  
Software available upon request



## GROUND SEGMENT

- Fully compatible with ISIS VHF/UHF/S-Band Ground Segment
- Mission planning and control software

## ISILaunch SERVICES

Have your satellite delivered to orbit by including ISILaunch Services. The ISIS 3U Bus is fully compatible with ISIS Deployers.

For more information about ISILaunch opportunities please visit: [www.isilaunch.com](http://www.isilaunch.com)



This document is subject to change without notice. Latest information is on [www.isispace.nl](http://www.isispace.nl)



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