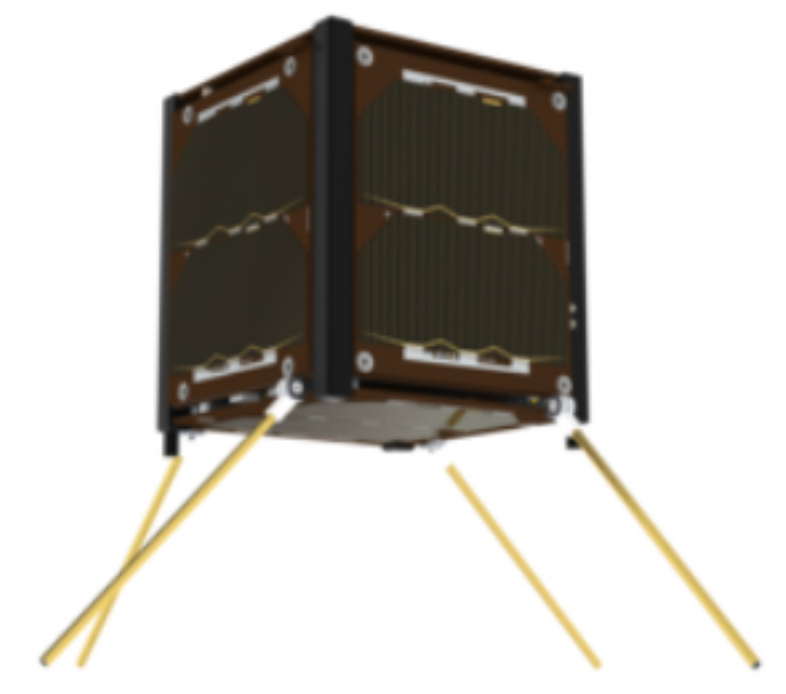


The 1U Standard Platform enables simple experiments in space for signal reception and Earth Observation. It is a good choice for projects that require a small platform for doing nanosatellite integration and in-space operation training. The satellite platform has been used in several Academic programs since 2014.

Main Application Areas

- Radio communication
- Earth Observation Experiments
- Academic programs



Highlights

The 1U standard platform is tested and ready for integration of your payload, or it can be upgraded with a [GomSpace provided payload consisting of a RGB camera with a 35 mm lens providing 60m per pixel resolution at 650km orbital altitude.](#)

Integration and Environmental Tests

The platform and its elements have been qualified according to the GomSpace qualification program, which includes tests in: Vibration, thermal cycling, heated vacuum, radiation and thermal stress.

The platform is tested and ready for payload integration. Payload integration is offered by GomSpace as a paid service.

Technical information

Platform	
Size	1U
Peak Power	3.4W
Platform power consumption	
Battery capacity	20W
Platform mass	0.95 kg
Platform lifetime	< 1 year

Payload ¹	
Payload space	0.3U
Average payload power	Depending on orbit - contact our sales department for info
Max. payload mass ¹	1 kg
Payload Interfaces	CAN bus
Power Bus	3.3V, 5V

¹Max. available payload mass depends on deployer

Subsystems	Flight Heritage since
Power System	Power system with 2 onboard Batteries, Solar Panels on all satellite faces. 2014
Mechanics	1U CubeSat Structure and full Harness Set 2014
Command & Management	Preinstalled software package for Satellite Control, Mission Library for Flight planning and data collection, 2014
Communication system	Communication system with On-Board Computer, UHF radio and antenna and Flight Preparation Panel for testing. 2014
ADCS System	ADCS software for basic stabilization and preinstalled example code configured for system diagnostics. Basic Attitude Determination and Control System with integrated magnetorquers in the solar panels for basic stabilization and alignment of satellite 2014

Documentation

- Product manuals and datasheets
- Platform qualification program description
- Platform checkout certificate
- Integration manual and test plan

Communication interfaces for Payloads

- CAN bus

Available services and options

- Integration of customer payload
- Engineering support
- LEOP support
- Ground station elements or operations

Lead time

For a standard platform delivery without payload integration, lead time is 4-6 months from receipt of order.