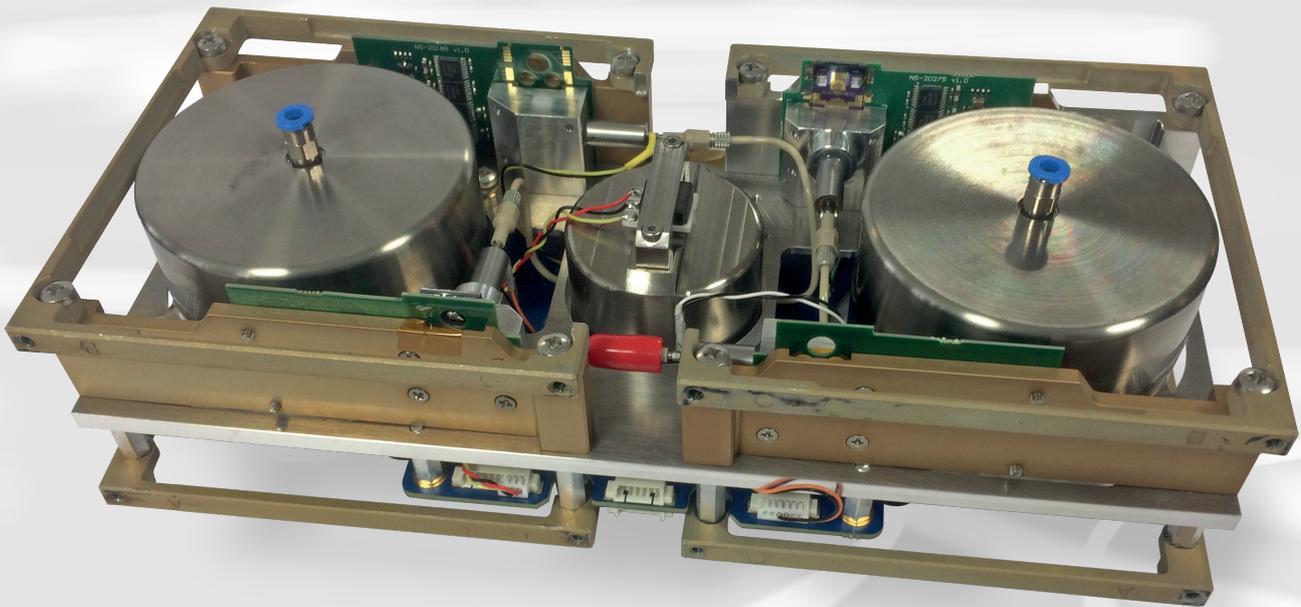


# NanoProp 6U



# NanoProp 6U

## Propulsion Module for 6U nanosatellites:

- Cold Gas compact propulsion unit
- Compatible with standard 6U platform
- Based on flight proven technology

## Highlighted Technical Features

### Configuration:

- 4 Individual thrusters
- 2 Separate Main Tanks
- Closed-loop thrust control
- Real time thrust measurement
- Propellant: Butane
- Propellant safety barriers: Min 2

### Specifications:

- Thrust: 1mN or 10mN (4x)
- Thrust resolution: 10  $\mu$ N or 100  $\mu$ N
- Specific impulse: 60-110 sec
- Total impulse 80 Ns
- Power consumption < 2W (average)
- Operating pressure: 2-5 bar
- Temperature range 0° to 50°C

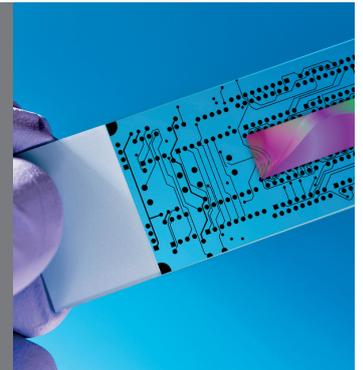
### Interfaces:

- Communication: CAN, I2C
- Protocol: CSP (optional)
- Supply voltage: 5 VDC and 12 VDC
- Maximum Current: < 1.5 A

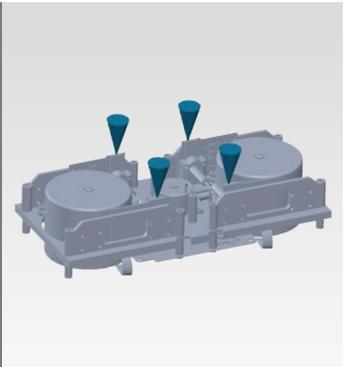
### Mechanical Features:

- Dimensions 200 x 100 x 50 mm<sup>3</sup>, (including electronics board)
- Interface: 8x M3 (PC/104 spec)
- Mass (dry/wet) 770/900 g

Proportional & precise closed loop thrust control to support proximity operations and precise formation flying.



Optimised configuration for integration in 6U satellites. Alternative configurations available for other sizes on request.



Product based on proprietary Micro-Electrical-Micro-Mechanical-Systems (MEMS) technology.

