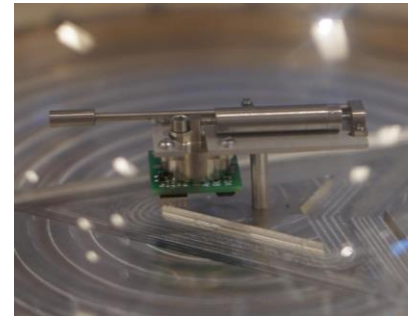


SINGLE RESISTOJET THRUSTER

THE THRUSTER IS A MINIATURISED RESISTOJET PROPULSION MODULE THAT USES WATER-BASED PROPELLANT

The thruster module is designed to be plug-and-play ready, as only power and connectivity wiring are required from the satellite. Size wise the thruster is tiny, but it still packs a punch as we estimate the nano size variant to have enough propellant for 100 firings. The thruster is perfect for propulsion experiments and orbital adjustments such as collision avoidance manoeuvres.



SMALL SIZE TO ENSURE LARGE PAYLOAD

The Single Resistojet Thruster module can be ordered in three different size variants. The smallest thruster module body measures 20mm * 20mm * 20mm making it the smallest complete thruster module in the world. Larger variants which include bigger propellant tank are also possible to order. To achieve full attitude and orbital control we recommend using multitruster Aurora ARM modules. This module is optimal for any size of cubesat.

SAFETY

Water-based propellant ensures safety both during the launch as well as during transport to the launch site; no dangerous chemicals are involved. A full tank's pressure is below 50 kPa, fulfilling all CubeSat launch standards.

SPECS

	Nano	Micro	Small
Idle power	50mW		
Active power	2 – 20 W (adjustable)		
Thrust	0.6 – 4 mN (adjustable)		
Isp	100 s*		
Impulse	1 Ns	20 Ns	200 Ns
Wet mass	25 g	60 g	300 g
Dry mass	24 g	40 g	100 g
Form	20 x 20 x 20 mm	30 x 30 x 30 mm	30 x 100 x 100 mm
Availability	Three months from order		

* estimate