

# I2T5

## COLD IODINE THRUSTER

Imagine having a cold gas thruster with no pressurized tank – it is now available! ThrustMe's I2T5 is a self-pressurized cold gas propulsion system operating with Iodine as propellant. The I2T5 stand-alone system includes the propellant storage, the flow control, the PPU as well as thermal management and intelligent operation all embedded into a 0.5U form factor.

### PRODUCT INFORMATION

#### PERFORMANCE & SPECIFICATIONS

Thrust	0.2 mN
Total impulse	75 Ns
Footprint	0.5 U
Total wet mass	0.9 kg
Total power	5 - 10 W
Start-up time	10 min

#### PRICING, DELIVERY & CUSTOMIZATION

Price	starts at 14 000 €
Delivery	<20 weeks after ordering
Customization	Yes. Contact us.

#### INTERFACE

Input Voltage	12 - 28 V
Bus interface	I <sup>2</sup> C, CAN

#### ADVANTAGES

- ✓ Thrifty
- ✓ Safe
- ✓ Convenient



I2T5 Flight Model

### ENABLING LONGER LIFETIMES AND DEBRIS MITIGATION

#### MISSION SPECIFICATIONS

Form Factor	3 U
Satellite Total Mass	4 kg
Altitude	400 km
Atmospheric Density @ 400km	$3.04 \times 10^{-12} \text{ kg/m}^3$
Total Impulse	75 Ns
$\Delta V$ per Collision Avoidance	0.57 m/s *
* for a 1km maneuver	

A 3U Earth observation CubeSat hitches a ride to a 400km SSO orbit. It uses an I2T5 to remain on its release orbit for 16 months, while performing 2 collision avoidance maneuvers.

