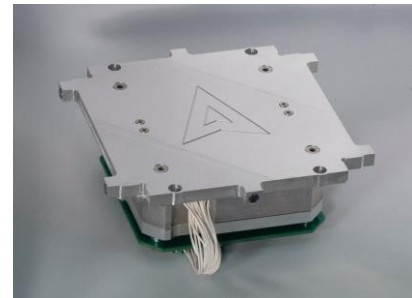


AURORA RESISTOJET MODULE (ARM)

THE ARM IS A MINIATURISED RESISTOJET ATTITUDE AND ORBIT CONTROL SYSTEM (AOCS) THAT USES A WATER-BASED PROPELLANT

The Aurora Resistojet Module is an AOCS module that is capable of attitude adjustments (ARM-A) and orbital control maneuvers (ARM-O). An array of 6-12 individual thrusters ensure scalable and efficient thrust and spacecraft control. Primary use case for ARM is to prolong the effective lifespan of a satellite by de-tumbling the spacecraft, station keeping and ensuring optimal fast attitude and orbital control depending on the mission requirements.



MODULAR STRUCTURE FOR CUSTOM REQUIREMENTS

Modular structure ensures perfect fit and utilization for customer's needs. ARM module's form factor is from 0.3 to 1 U. The module's size is defined mainly by the propellant tank, which can be selected for the mission's needs ensuring efficient use of volume and mass budgets. Thrusters can be tuned to fit the thrust requirements of the customer's mission. The module is available in several CubeSat form factors and also available for proprietary small satellite platforms. Thruster tips can be piped individually with custom (ARM-C) design, keeping the need of the size of the module in control.

Specs and features that can be modified for customer's needs:

- Tank size (Amount of fuel carried & overall size of the unit)
- Thruster thrust and power requirements

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

Idle Power	50 mW
Active Power	2 – 20 W (adjustable)*
Thrust	0.6 – 4 mN (adjustable)*
Isp	100 s**
Impulse	75 - 300 Ns
Wet mass	0.35 - 1.33 kg
Dry mass	~ 250 - 350 g
Form	10 x 10 x 3 – 10 cm***
Availability	Three months from order

* Per active thruster, ** estimate

*** Larger variants such as 20 x 20 x 5 - 20 cm or 50 x 50 x 10 - 60 can be custom ordered