DATASHEET | ARM-O
Aurora Resistojet Module – Orbit control

ARM Product line
ARM-A | **ARM-O** | ARM-C
ARM-AO | ARM-E | MEPE
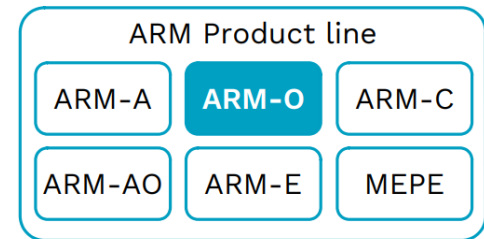
ARM PRODUCT FAMILY

The ARM products provide an array of 1-12 individual water resistojet thrusters with a shared tank for a variety of use cases. The products are intended for any nano- and microsatellite sizes, with specific CubeSat form factor variants being developed for off-the-shelf delivery.

ARM-O

The Aurora Resistojet Module for Orbit control is a CubeSat propulsion system utilizing water propellant. It features 2-4 thrusters, each aligned with the satellite centre-of-mass, allowing them to generate linear thrust with no rotational momentum whether used individually or together.

The use cases include orbital changes, station keeping, formation flying and collision avoidance.
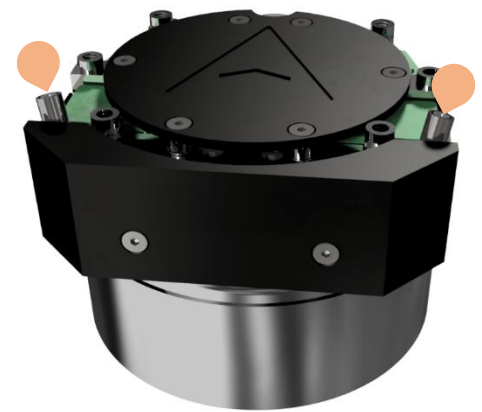
Render of the Small ARM-O with 2 thrusters

TECHNICAL SPECIFICATION

The below configurations are available without customization, but other configurations can also be built

	Small	**Medium**
Form	0.6 U	1 U
Total impulse	Up to 150 Ns	Up to 400 Ns
Wet mass	< 0.8 kg	< 1.1 kg
# of thrusters	2 or 4	
Control interface	Either direct electrical interface, or digital through RS-422 or CAN	
Power	5 W/mN	
Thrust vector	Thruster heads adjusted toward centre-of-mass	
Response time	Preheat 60 s, nominal mode 2 milliseconds	
Lead time	6-9 months	