DATASHEET | ARM-O
Aurora Resistojet Module - Orbit control

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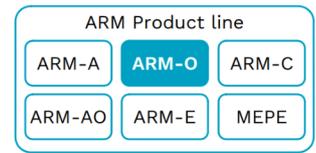
The Aurora Resistojet Module for Orbit control is a CubeSat propulsion system utilizing water propellant. It features 2-4 thrusters, each aligned with the satellite centre-of-mass, allowing them to generate linear thrust with no rotational momentum whether used individually or together.

The use cases include orbital changes, station keeping, formation flying and collision avoidance.

Other products in the ARM product family provide arrays 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.

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	90-120 Ns	200-250 Ns
Wet mass	0.7 kg	1 kg
# of thrusters	2	
Thrust	3 mN (BoL)	
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	