

THRUST VECTORING & PRECISION CONTROL

for Rendezvous & Proximity Operations (RPO)



PROBLEM:

RPO missions demand ultra-fine relative motion control, smooth attitude adjustments, and safe maneuvering near another spacecraft. Traditional reaction-wheel and main-thruster combinations can introduce jitter, overshoot, and limit how gently and accurately you can approach, inspect, or dock with a target.

SOLUTION:

GO-2 delivers continuous, adjustable, and differential low thrust to enable smooth, precise translational and rotational control. This supports safer, more accurate RPO profiles, from precise phasing to final approach and station-keeping.

GO-2 INSIGHTS:

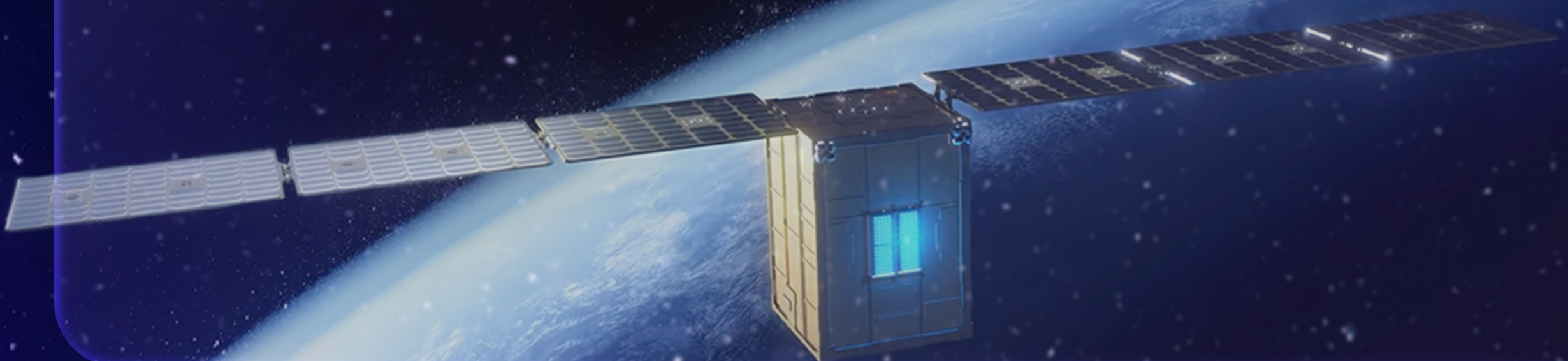
- Fine thrust control and throttling across 5–400 μ N, with a minimum impulse bit of approximately 800 nNs, enables an ultra-gentle approach and hold maneuvers during critical proximity operations.
- Independent control of 40 thrusters supports thrust vectoring and combined orbital and attitude maneuvers, enabling precise relative positioning and pointing around a target spacecraft.

GO-2 INSIGHTS:

- A 7–40 W power draw enables flexible duty cycles and continuous low-thrust operation without disrupting spacecraft power budgets or payload activities.
- High total impulse enables sustained RPO maneuvering with minimal propellant consumption, preserving delta-v for repeated proximity operations and extended mission duration.

GO-2 INSIGHTS:

Together, these capabilities deliver tighter control authority, smoother approaches, reduced reliance on large impulsive burns, and safer proximity timelines, driving higher mission confidence and operational value.



GO-2: ENABLING SAFER, SMARTER RPO:

As demand grows for on-orbit servicing, inspection, and complex RPO missions, GO-2 is built to scale with it, delivering finer control, smoother trajectories, and more reliable proximity operations. With precise thrust vectoring and differential low thrust, GO-2 helps you execute more precise and propellant-efficient RPO sequences.

GO-2: ENABLING SAFER, SMARTER RPO:

That means fewer risky impulsive maneuvers, more time on-station, and a stronger return on mission investment. By enabling stable, accurate control over long-duration proximity operations, GO-2 supports your RPO objectives and helps you extract maximum value from every rendezvous.