PORTAL

Starburst

Product Overview

Starburst is an ESPA-class, free-flying spacecraft designed for high-agility operations across LEO, MEO, and GEO. Built on a modular architecture, it integrates high-performance RCS thrusters, shared avionics, and power systems developed in parallel with Portal's Supernova platform. Starburst delivers over 1 km/s of targeted delta-v, enabling rapid orbital changes, RPO maneuvers, and dynamic mission retasking.

Baseline Capabilities

Rendezvous and Proximity Operations (RPO), Rapid Retasking, and Rapid Maneuvering, Space Domain Awareness.

Delta-V	Up to 1,600 m/s
Radiation Tolerance	LEO, MEO, or GEO
Payload Capacity	Up to 50 kg
Spacecraft Mass	260 kg
Launch Volume	ESPA-Grande / SpaceX Rideshare XL
Production Lead Time	12 months
Production Rate	Up to 16 per year
Attitude Control	Reaction wheels / ACS Cold Gas
Propulsion	Ammonia Based Thruster
Power Available to Payload	>100 Watts (Contact us)
Lifetime on Orbit	Up to 5 years
First Launch	Q4 2026 — Transporter-18
Commercial Available	Starting 2027



Proprietary and Confidential, Portal Space Systems Inc.