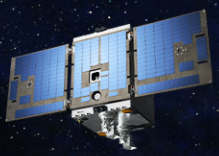
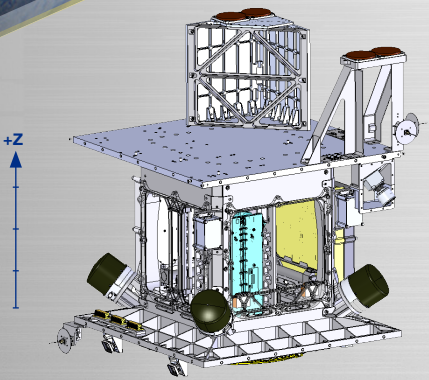
GA-150



TSIS-2

GAzelle

OTB



Compact spacecraft design exceeds prototype and residual ops requirements and conforms to small payload launch vehicle envelope

Resilient, modular, and configurable ESPA bus design supporting a variety of Comms and ISR missions

Customizable to operate over a wide range of orbits including all inclinations, and compatible with multiple launch vehicles

Utilizes standard payload interfaces to enable seamless integration and mission-ready delivery times

GENERAL ATOMICS
ELECTROMAGNETICS

	GA-150 PARAMETER	GA-150 VALUE
SPACECRAFT (S/V) CAPABILITY	Orbit	LEO (400-1000 km), all inclinations (Configurable for other orbits)
	Mass (Basic/Launch)	Up to 100 kg/150 kg
	Volume	ESPA-compatible (Configurable for other launches)
	Mission/Program	TSIS-2, GAzelle, OTB
	Launch Vehicle Compatibility	Falcon 9, Electron, Alpha (Others as required)
	Design Life	3-10 years
	Stabilization	3-axis, 0.03 deg, 3σ
	Voltage	28 V +/- 6 Vdc
	Telemetry, Tracking & Command Rate	S-band, Up to 38 kbps uplink, 2 Mbps downlink
	Mission Data Rate	X-band, Up to 300 Mbps; OCT capable
	On-board Storage	>8 Gbytes, Additional storage options available
	Propulsion	Xenon Hall, Traditional Hydrazine, Butane (Electric and green options available)); Up to 300 m/s dV
PAYLOAD (P/L) ACCOMMODATION CAPABILITY	Mass	Up to 50 kg
	OAP/Peak	Up to 180 W/300 W (Customizable for mission needs) Payload accommodation: power conversion available (6 V, 12 V, and 28 V)
	Volume	Variable up to ~100 cubic centimers
	Field of Regard/View	Hemispherical unobstructed FoV
	Mission Data Handling	Up to 300 Mbps from P/L to S/V
	Command/Data Interface	Fully configurable (i.e. LVSD, RS422, SpaceWire)
	Thermal Control	Up to 5 bus-controlled heater switches
	Heat Rejection	Configurable heat management system available

REV B 0623