

GA-75



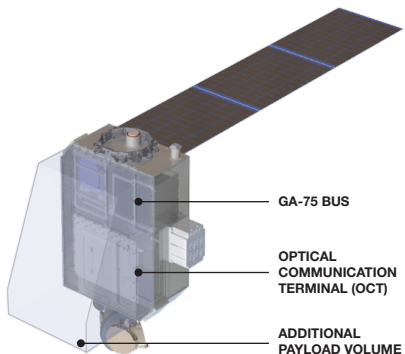
**MANHATTAN**



 **GENERAL ATOMICS**  
ELECTROMAGNETICS

# GA-75

- Resilient, modular, and configurable half ESPA bus design supporting a variety of Comms and ISR missions
- Customizable to operate over a wide range of orbits (including all inclinations) and is compatible with multiple launch vehicles
- Utilizes standard payload interfaces to enable seamless payload integration and mission-ready delivery times



	PARAMETER	VALUE
SPACECRAFT (S/V) CAPABILITY	Orbit	LEO (400-600 km), all inclinations (Configurable for other orbits)
	Mass (Basic/Launch)	Up to 40 kg/75 kg
	Volume	Half ESPA up to full ESPA compatible depending on payload volume (Configurable for other launches)
	Mission/Program	Manhattan
	Launch Vehicle Compatibility	Falcon 9, L1, Alpha (Others as required)
	Design Life	1-5 years
	Stabilization	3-axis, 0.01 deg, 1 $\sigma$
	Voltage	14.4 V +/- 2 Vdc
	Telemetry, Tracking & Command Rate	S-band, Up to 100 kbps uplink/downlink; L-band secondary
	Mission Data Rate	S-band, Up to 1 Mbps uplink/downlink; 1Gbps optical w/OCT
	On-board Storage	> 10 Gbytes, additional storage options available
	Propulsion	Indium Ion (Other traditional, electric, and green options available)
PAYLOAD (P/L) ACCOMMODATION CAPABILITY	Mass	Up to 35 kg
	OAP/Peak	Up to 18 W/430 W (Customizable for mission needs)
	Volume	Variable (Launch vehicle dependent)
	Field of Regard/View	Hemispherical unobstructed FoV
	Mission Data Handling	Up to 1 Gbps from P/L to S/V (Optical-based configuration)
	Command/Data Interface	GigE/Serial Digital Mission/Analog Health & Status
	Thermal Control	Passive, payload controlled
	Heat Rejection	Up to 18 W average, 200 W peak