



General Atomics Electromagnetic Systems

United States · founded 1955 · ga.com/general-atomics-electromagnetic-systems/

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as of 20 August 2026

General Atomics Electromagnetic Systems

General Atomics is a defense and diversified technologies company, founded in 1955. It operates on five continents and includes affiliates like GA Aeronautical Systems, Inc. (GA-ASI) and General Atomics Europe GmbH. GA-ASI produces unmanned aircraft and provides electro-optical, radar, signals intelligence, and automated airborne surveillance systems. GA's Electromagnetic Systems Division produces electro-magnetic aircraft launch and recovery systems for the US Navy, satellite surveillance systems, electro-magnetic rail guns, high power lasers, hypervelocity projectiles, and power conversion systems. The company is involved in thermonuclear fusion research for the US Department of Energy and has developed the UCSD Supercomputer Center. It has constructed over 60 TRIGA nuclear research reactors in 24 countries and develops next-generation nuclear fission and high-temperature materials technologies. The company occupies over 8 million square feet of engineering, laboratory, and manufacturing facilities and has over 13,000 employees.

This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

SERVICES

Services

Metrology and Electron Microscopy

The Characterization Laboratory at GA-EMS is capable of characterizing all key properties of the components it delivers.

Precision Manufacturing

GA-EMS provides manufacturing solutions and services for a wide range of applications.

Radiation Monitoring Systems Design

GA-EMS offers flexible site-specific designs for new and retrofitted radiation monitoring plants.

Superconducting Magnets Design, Engineering, and Fabrication

General Atomics Electromagnetic Systems offers end-to-end design, engineering, and fabrication services for superconducting magnets.

Product catalogue

GENERAL ATOMICS ELECTROMAGNETIC SYSTEMS

Hermes Small Satellite Bus

General Atomics Electromagnetic Systems' Hermes small satellite bus — a US-manufactured modular platform for DoD and commercial LEO/MEO missions with flexible payload accommodation

Platform	Hermes small satelllite bus (100–500 kg class)
Orbits	LEO, MEO
Payload	Flexible accommodation (US DoD payload-focused)
Compliance	US-origin supply chain, DoD cryptographic compatible
Applications	Space domain awareness, DoD hosted payloads, pLEO
HQ	San Diego, California, USA (General Atomics Corporation division)

price on request



GENERAL ATOMICS ELECTROMAGNETIC SYSTEMS

Orbital Test Bed (OTB) Satellite

OTB is a flexible, modular, low-cost hosted-payload smallsat platform built by General Atomics Electromagnetic Systems to launch and operate multiple technology-demonstration paylo

Mass	139 kg
Dimensions (stowed)	609 x 629 x 980 mm
Dimensions (deployed)	1442 x 2462 x 975 mm
Orbit average power	150 W
Orbit	720 km circular altitude, 24° inclination
Launch date	June 25, 2019, U.S. Air Force STP-2 mission, SpaceX Falcon Heavy
Payload adapter	ESPA ring

price on request

[datasheet](#)

Contact General Atomics Electromagnetic Systems

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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