

NEWSPACE MARKET · COMPANY PROFILE



Hydra Space

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as of 20 August 2026



Hydra Space

Hydra Space is a Madrid-based satellite engineering company specializing in satellite IoT communications and affordable pico-satellite solutions, with full in-house capabilities spanning satellite design, ground segment, and operations. The company develops ultra-compact PocketQube-format satellites (5×5×10 cm, ~400 g) that provide cost-effective, scalable connectivity for remote IoT applications in sectors including agriculture, maritime, logistics, and environmental monitoring. Hydra Space has launched multiple satellites via SpaceX rideshare missions, offers turn-key constellation services and hosted payload integration, and is backed by ESA-BIC Madrid, CDTI-Neotec, and ENISA within ESA's commercialization programme.

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

EXPERT SPACE CONSULTING AND SUBSYSTEMS DEVELOPMENT

Hydra Space offers expert consulting in business and technology, manages tests and qualification, and handles launch management, alongside developing satellite subsystems.

IN ORBIT TESTING

Hydra Space offers affordable in-orbit testing and validation for experimental payloads, enabling prototyping and de-risking of space projects and technologies.

IoT WIDE-AREA, MASSIVE, CONNECTIVITY

Hydra Space provides wide-area, massive IoT connectivity by integrating 3rd party networks, optimizing satellite revisit and latency, and offering device/sensor agnostic data connectivity with efficie

TURN-KEY SPACE MISSIONS AND CONSTELLATIONS

Hydra Space provides end-to-end design and implementation for space missions and constellations, covering regulatory aspects, manufacturing, integration, testing, launch, and ground segment operations

Product catalogue



HYDRA SPACE

Hydra Space PocketQube IoT Satellite Platform

Turn-key 5×5×10 cm PocketQube (~400 g) IoT satellite platform and hosted payload service — in-house design, ground segment, and operations; SpaceX Transporter launch access; ESA-BI

Satellite format	PocketQube 2P
Dimensions	5 × 5 × 10 cm
Mass	~400 g
Communication protocols	LoRa, NB-IoT
Cloud APIs	AWS and Azure compatible
Launch vehicle access	SpaceX Transporter rideshare
Orbital lifespan	2–3 years

price on request

HYDRA SPACE

Hydra Space Water-Based Propulsion System

Green water-electrolysis propulsion for PocketQube and CubeSat-class satellites — non-toxic, non-pressurized propellant, solar-powered electrolysis, enabling station-keeping, phasi

Propellant	Water (H ₂ O)
Propulsion principle	Electrolysis (hydrogen/oxygen generation and expulsion)
Propellant safety classification	Green / non-toxic / non-pressurized
Power source	Onboard solar panels
Target platform	PocketQube 2P (5 × 5 × 10 cm, ~400 g) and CubeSats
Applications	Station-keeping, constellation phasing, deorbit, collision avoidance
Range safety classification	No hazardous propellant – no range safety restrictions

price on request

Contact Hydra Space

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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