

NEWSPACE MARKET · COMPANY PROFILE



Emtech Space

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as of 20 August 2026

Emtech Space

Emtech Space is a space mission engineering company headquartered in Athens, Greece, with offices in Darmstadt, Germany and Nicosia, Cyprus. Operating under the motto 'Engineering Mission Success,' the company combines New Space agility with institutional-grade rigor to deliver safe, high-performance missions through advanced modeling, simulation, and independent validation for both heritage and new-generation programs. Emtech's service and product portfolio spans: high-fidelity cyber-physical simulation environments (MIL/SIL/HIL) for spacecraft systems; independent software verification and validation (ISVV) certified to ECSS and ESA standards; Snapshot and Suitcase Multi-Magnetometer Facilities (MMF) for rapid, high-accuracy magnetic signature characterization; a dedicated ADCS validation facility (EOS) featuring 3D Helmholtz coils and air bearings; and end-to-end IOD/IOV mission support as Prime Contractor. The company also develops AstroCore-R (radiation-supervised AI-native onboard computing) and ODES, a cloud-based holistic simulation suite. Notable mission heritage includes CRISTAL and JUICE payload software ISVV, ROSE-L/CIMR/CHIME operational simulators, and the Space Rider Mission OPSIM. Emtech holds a €4M ESA contract for the Hellenic Space Dawn Mission and collaborates with ESA, Airbus, and Thales Alenia Space.

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SERVICES

Services

End-to-end mission services

We offer end-to-end mission services covering mission design, simulation, and operational execution—from initial concept through successful in-orbit operations.

Full-cycle Electromagnetic Compatibility services

We provide full-cycle Electromagnetic Compatibility (EMC) services, from EMC-aware design support to pre-compliance evaluation and characterization in accordance with ECSS, ESA, and international standards.

Full-scope ISVV services

We provide full-scope Independent Software Verification and Validation (ISVV) services to ensure software reliability, system safety, and compliance with applicable standards.

High-fidelity cyber-physical modeling environments

We provide high-fidelity cyber-physical modeling environments integrating MIL, SIL, HIL capabilities for spacecraft design assurance and functional testing, along with advanced structural, thermal and

Magnetic cleanliness infrastructure

We offer state-of-the-art magnetic cleanliness infrastructure for unit-level and system-level modeling, measurement, and verification in line with mission requirements and ECSS standards.

Product catalogue



EMTECH SPACE

Emtech AstroCore-R Onboard Computing Platform

Radiation-supervised, AI-native onboard computing platform for satellites — processes raw satellite data into real-time in-orbit decisions.

Radiation tolerance	Radiation-supervised design
Processing architecture	AI-native onboard computing
Function	Real-time in-orbit data processing and autonomous decision-making
Applications	On-orbit data reduction, anomaly detection, payload scheduling, image classification

price on request



EMTECH SPACE

Emtech Space Snapshot Multi-Magnetometer Facility (Snapshot-MMF)

Fixed 12-sensor fluxgate array for rapid, high-accuracy spacecraft magnetic signature characterization — full measurement in ~1 minute. Installed at ESA ESTEC since 2017.

Sensor array	12 Bartington Mag-13MS fluxgate magnetometers
Panel diameter	~2.3 m (circular)
Acquisition channels	36
ADC resolution	18 bit
Measurement time	~1 minute (full signature)
Capabilities	DC dipole modeling + AC transient measurement
Output	Automated Multi-Dipole Model (MDM)

price on request



EMTECH SPACE

Emtech Space Suitcase Multi-Magnetometer Facility
(Suitcase-MMF)

Portable carry-on magnetic cleanliness testing system — DC to 50 kHz, wireless Bluetooth, smartphone Aruco positioning, automated Multi-Dipole Modeling for field deployment.

Frequency range	DC to 50,000 Hz
Portability	Fits in carry-on suitcase
Connectivity	Wireless Bluetooth
Positioning method	Smartphone camera with Aruco tag image recognition
Supported sensors	Sensys and Bartington fluxgates, MEDA search coils
Modeling output	Automated Multi-Dipole Model (MDM)
Expansion	Multiple units daisy-chainable for larger arrays

price on request

Contact Emtech 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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