

NEWSPACE MARKET · COMPANY PROFILE



MICRO AEROSPACE SOLUTIONS

Micro Aerospace Solutions

United States · founded 2000 · micro-a.net

3

PRODUCTS

5

SERVICES

newspacemarket.com/companies/micro-aerospace-phantom-space/

as of 20 August 2026



Micro Aerospace Solutions

Micro Aerospace Solutions, Inc. (MAS) is a small business aerospace engineering firm founded in 2000 and based in Melbourne, Florida, specializing in micropropulsion systems and miniaturized spacecraft subsystems for nanosatellites and small satellites. MAS has developed an extensive family of microthrusters covering thrust levels from 0.005 N to 22 N using monopropellants including hydrogen peroxide, hydrazine, and the unique Tridyne gas mixture (nitrogen-hydrogen-oxygen), offering non-toxic alternatives comparable to hydrazine performance. The company's innovative metal gauze catalyst design for hydrogen peroxide thrusters enables over 500,000 pulse lifetimes and consistent decomposition. MAS also offers bi-propellant systems, gel-propellant OTV modules, inertial measurement units (IMUs), embedded computing hardware, CubeSat system development services, and electric propulsion consulting. The company works with universities, research organizations, and commercial satellite operators to provide affordable, flight-proven propulsion and avionics solutions for small spacecraft missions.

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

Embedded Computer Hardware and Software Development

The company develops embedded computer hardware and software, including single board computers, for small satellites and terrestrial applications.

Engineering Services

Micro Aerospace Solutions offers engineering services including electrical and mechanical system design and consultation, with a focus on human-centered design.

Hardware / Software Integration

Micro Aerospace Solutions performs hardware/software integration, including hardware/PC integration and data collection/display.

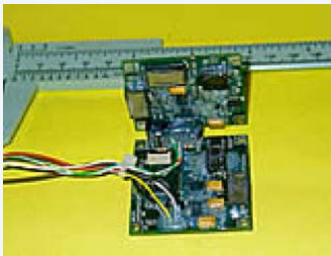
Prototyping and Testing

Micro Aerospace Solutions provides rapid prototyping, micro-machining, large scale machining, micro-welding, parts procurement, assembly, and operational testing.

System Design and Testing

The company designs and tests systems for usability and reliability, specializing in thruster design, propulsion, attitude control, and C&DH for small spacecraft.

Product catalogue



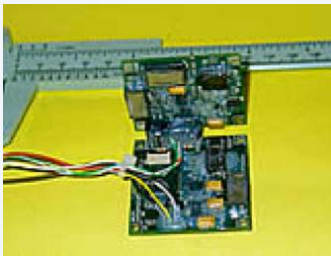
MICRO AEROSPACE SOLUTIONS

IMU (Inertial Measurement Unit)

Micro Aerospace Solutions (MAS) offers a series of MEMS-based Inertial Measurement Units (IMUs) designed for small satellite attitude detection systems, with three models providing

Specification	MASIMU01
Power	0.6 Watts
Mass (without enclosure)	40 Grams
Mass (with enclosure)	80 Grams
Voltage	5 to 12 volts
Dimensions (with enclosure)	2.5 x 2.2 x 1.4"
Interface	RS 485 Serial

price on request



MICRO AEROSPACE SOLUTIONS

MASIMU Inertial Measurement Units (IMU)

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MICRO AEROSPACE SOLUTIONS

Micro-A Thrusters

Micro-A offers a range of monopropellant microthrusters from 0.005 N to 22 N, utilizing propellants like hydrogen peroxide, hydrazine, Tridyne gas, and cold gas, alongside custom p

Model	M005HP
Thrust (N)	0.005
Isp (sec.)	100
Inlet Pressure (Pa)	350000
Minimum Impulse bit (N-sec)	1.2x10^-4
Weight (grams)	10
Exit Diameter (mm)	3.81

price on request

Contact Micro Aerospace Solutions

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.

<https://newspacemarket.com/companies/micro-aerospace-phantom-space/>

<https://www.micro-a.net>

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