

NEWSPACE MARKET · SECTOR CATALOGUE

Scientific Instruments

Every unit we list in this sector — specifications, manufacturers and where to ask for a quote. Compiled from the live NewSpace Market catalogue.

64

PRODUCTS

26

MANUFACTURERS

16

COUNTRIES

31

WITH DATASHEETS

newspacemarket.com/catalogues/scientific-instruments/

as of 2 September 2026

What is inside

This catalogue lists **64 scientific instruments products** offered by **26 manufacturers** across **16 countries**. Of those, 31 carry a manufacturer datasheet and 0 publish a price; the rest are quoted on request — normal in this market, where configuration drives cost.

Entries are grouped alphabetically by manufacturer. Every product links back to its page on [newspacemarket.com](#), where you will find the full specification, the datasheet and a quote form that reaches the manufacturer directly.

Compiled 2 September 2026 from the live catalogue. Specifications are as published by the manufacturers; we normalise units but do not re-measure. Where a figure looked implausible it was left out rather than guessed.

Manufacturers by country

Switzerland 3	Hungary 2	Italy 2	Canada 2	Spain 2	Czech Republic 2	United States 2
Sweden 1	United Kingdom 1	France 1	Austria 1	Russia 1	Germany 1	Luxembourg 1
Thailand 1	China 1					

All products at a glance

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
2.4-metre Thai National Telescope	NARIT (National Astronomical Research Institute of Thailand)	Thailand	–	on request
aGRT Aerial Georadiotomography	Lunasonde	–	Operating frequency: ~1000x lower than traditional radar	on request
Argus 1000 Infrared Spectrometer	Thoth Technology	Canada	Operating wavelength band (Standard): 1000 nm to 1700 nm	on request
Argus 2000 Infrared Spectrometer	Thoth Technology	Canada	Detector: InGaAs, 1000-1650 nm infrared range (1240-2000 nm or 1730-2200 nm...	on request
ATMS Advanced Technology Microwave Sounder	Space Dynamics Lab	United States	Type: Passive microwave sounder	on request
CHEOPS Photometer	ETH Zurich - Space Geodesy	Switzerland	Type: Space photometer	on request
CryoMag®	Bartington Instruments	United Kingdom	Operating temperature: down to 2K	on request
Doppler Wind Lidar	fantana	Austria	Development started: 2021	on request
EXOhSPEC Exoplanet High-Resolution Spectrograph	NARIT (National Astronomical Research Institute of Thailand)	Thailand	–	on request
FFT2G	AAC Clyde Space	Sweden	Outer dimensions: 220 x 115 x 25 mm	on request
Focal Plane Assemblies (FPA)	Lidax	Spain	Flight heritage: 26 Focal Plane Assemblies delivered for ESA PLATO mission ...	on request
GHGSat Satellite Constellation & DATA.SAT	GHGSat	Canada	Satellites in orbit: 15 commercial satellites (as of 2025)	on request
Global Environmental Monitoring System (GEMS)	WeatherStream (formerly Orbital Micro Systems)	United States	–	on request
Global Environmental Monitoring System (GEMS2)	WeatherStream (formerly Orbital Micro Systems)	United States	–	on request
Grad-01-1000L	Bartington Instruments	United Kingdom	Resolution: around 50pT/m	on request
Grad-13®	Bartington Instruments	United Kingdom	Baselines: 500 mm to 1000 mm	on request
Greenhouse Gas Monitoring Sensors	ABB Space Division	Switzerland	Technology: Fourier Transform Infrared (FTIR) spectrometers, Fabry-Pérot in...	on request
Life Science Equipment	Kayser Space	Italy	Instruments: APHRODITE, IRIS, MIDASS, BIOPACK, BOREALIS, ALCYONE	on request

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
Low-Resolution Spectrograph (LRS)	NARIT (National Astronomical Research Institute of Thailand)	Thailand	–	on request
Mag-01H D/I	Bartington Instruments	United Kingdom	Accuracy: 6 seconds of arc	on request
Mag-01H®	Bartington Instruments	United Kingdom	Resolution: 0.1nT	on request
Mag-03®	Bartington Instruments	United Kingdom	Noise levels: down to <6pTrms/√Hz at 1 Hz	on request
Mag-03RCU	Bartington Instruments	United Kingdom	Measuring range options: ±100μT, ±200μT or ±300μT	on request
Mag-13®	Bartington Instruments	United Kingdom	Number of axes: Three	on request
Mag566	Bartington Instruments	United Kingdom	Supply Voltage: ±5 V	on request
Mag610/611	Bartington Instruments	United Kingdom	Operating temperature: 0°C to +175°C	on request
Mag612 Miniature	Bartington Instruments	United Kingdom	Probe size: 20 x 20 x 20 mm	on request
Mag613	Bartington Instruments	United Kingdom	Range: ±300μT or ±500μT	on request
Mag614-FL	Bartington Instruments	United Kingdom	Number of axes: Three (right hand XYZ co-ordinate system)	on request
Mag619	Bartington Instruments	United Kingdom	Small probe size: 29x20x11 mm	on request
Mag629	Bartington Instruments	United Kingdom	Number of axes: Three	on request
Mag639	Bartington Instruments	United Kingdom	Bandwidth: DC to 12 kHz	on request
Mag644	Bartington Instruments	United Kingdom	Number of axes: One	on request
Mag646/710	Bartington Instruments	United Kingdom	Frequency response: DC to 1 kHz	on request
Mag648 / Mag649®	Bartington Instruments	United Kingdom	Power consumption: <15 mW	on request
Mag652	Bartington Instruments	United Kingdom	Sensitivity: >1nT	on request
Mag658	Bartington Instruments	United Kingdom	Number of axes: Three	on request
Mag669®	Bartington Instruments	United Kingdom	Full-scale range: ±75μT	on request
Mag693U	Bartington Instruments	United Kingdom	Full Scale Measuring Range: 100μT	on request

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
Mag900/901	Bartington Instruments	United Kingdom	Noise band: $\leq 10 \text{ pT rms/Hz}$ @ 1 Hz (After magnetic settling time)	on request
Medium-Resolution Echelle Spectrograph (MRES)	NARIT (National Astronomical Research Institute of Thailand)	Thailand	–	on request
MiniRad	WeatherStream (formerly Orbital Micro Systems)	United States	Mission type: E0	on request
Mission Space Radiation Monitoring Instruments (ZOHAR, SOLARIS, LEEMR)	Mission Space	Luxembourg	Pl-1f dimensions / mass / power: 85 x 50 x 70 mm / < 0.6 kg / < 1 W	on request
MROI – Magdalena Ridge Observatory Interferometer	EIE Space Technologies Srl	Italy	Site: New Mexico, Magdalena Mountains, Cibola National Forest, Socorro Coun...	on request
MWSE Space Microwave Payloads (GASPER / FMPL-2 / GBSAR)	MWSE - Microwave Sensors and Electronics	Spain	Space payload: gasper: Galileo-enabled in-orbit receiver for IOD/IOV missions	on request
Ocean Bottom Magnetometer	Magson GmbH	Germany	Housing: Titanium pressure tube (deep-sea rated)	on request
Onboard Infrared Fourier Spectrometer	Glavkosmos	Russia	Operation spectral range: 5-15 μm	on request
Paras Defence Optical Sighting and Space Systems	Paras Defence and Space Technologies	–	Products: Optical instruments, imaging systems, space electronics	on request
piDOSE-DCD/FM (Flight Model)	SkyFox Labs s.r.o.	Czech Republic	Part Number: piDOSE-DCD/FM (Flight Model)	on request
piPLASMA/FM (Flight Model)	SkyFox Labs s.r.o.	Czech Republic	TRL: 9	on request
Puli Lunar Water Snooper (PLWS)	Puli Space Technologies	Hungary	Instrument type: Miniature neutron spectrometer	on request
RadNano Dosimeter	27G Technology	Hungary	Dimensions: 12.7 × 12.7 × 2.5 mm	on request
Science Magnetometer (Space Payload Fluxgate Magnetometer)	Magson GmbH	Germany	Sensor type: Tri-axial vector-compensated fluxgate (ringcore, dual crossed ...	on request
Ship-Board Magnetometer	Magson GmbH	Germany	Configuration: Dual-sensor fluxgate magnetometer	on request
Soil Moisture Data	WeatherStream (formerly Orbital Micro Systems)	United States	–	on request
Space X-Ray Detector (SXD)	Serenum Space	Czech Republic	Detector type: Space-rated silicon ionizing radiation detector	on request
Spacemag-Lite®	Bartington Instruments	United Kingdom	Probe Width: 20 mm	on request
Spacemag®-2	Bartington Instruments	United Kingdom	Sensor Head Width: 20 mm	on request
SPACTORY	SpacePharma	Switzerland	Dimensions: 24U, 20x30x40 cm	on request

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
Stratospheric Balloon Hardware	Comat	France	–	on request
Tow Fish Magnetometer	Magson GmbH	Germany	Configuration: One or two fluxgate sensors	on request
UAS-Mag®	Bartington Instruments	United Kingdom	Number of Axes: Three	on request
ULTRASPEC High-Speed Imaging Photometer	NARIT (National Astronomical Research Institute of Thailand)	Thailand	–	on request
XIOPM Space Optical Instruments	Xi'an Institute of Optics and Precision Mechanics (XIOPM)	China	Focus: Optical instruments, remote sensing payloads, laser systems	on request

Products by manufacturer

R&D company providing miniaturized radiation dosimeters and EMC filters for space and ground applications. TRL-9 flight heritage.



27G TECHNOLOGY
RadNano Dosimeter

A tiny radiation sensor with low power consumption and extensive TRL-9 heritage.

Dimensions	12.7 × 12.7 × 2.5 mm
Dose range	1 mGy to 100 Gy (0.1 rad to 10 krad)
Power (standby)	< 10 µW
Power (active)	< 10 mW
Sensors	Dual semiconductor sensors

price on request

AAC Clyde Space

AAC Clyde Space provides small satellite technologies and space-based data services, offering end-to-end solutions from satellite components to data analytics for various applications.



AAC CLYDE SPACE
FFT2G

The FFT2G is a customisable 2nd-generation FFT spectrometer for ground-based radio astronomy, offering high bandwidth and high resolution spectral analysis.

Outer dimensions	220 x 115 x 25 mm
Mass	750 g
Power consumption (w) (Typ)	40
Supply voltage (v) (Typ)	12
General purpose IO voltage (v) (Min/Typ/Max)	0 / 3.3 / 5

price on request [datasheet](#)

Swiss-Swedish technology company providing sensors, instruments, and automation systems for space applications.

ABB SPACE DIVISION

Greenhouse Gas Monitoring Sensors

ABB Space Division's TANSO and GHGSat-derived space sensors for monitoring CO₂, methane, and greenhouse gas emissions from satellites.

Technology	Fourier Transform Infrared (FTIR) spectrometers, Fabry-Pérot interferometers
Tanso-fts	Spectroradiometer for JAXA GOSAT/GOSAT-2 (CO ₂ +CH ₄ global monitoring)
Ghgsat instrument	Compact SWIR spectrometer (methane plume detection at 25 m resolution)
Target gases	CO ₂ , CH ₄ (methane), N ₂ O, O ₃
Programs	JAXA GOSAT/GOSAT-2, GHGSat commercial constellation

price on request

Bartington Instruments

Bartington Instruments manufactures magnetometers, Helmholtz coil systems, and magnetic susceptibility gradiometers. These products are used in aerospace, space, and high altitude applications, including for the Io-1 satellite and Lunar Ver



BARTINGTON INSTRUMENTS

CryoMag®

CryoMag three-axis fluxgate magnetometers are designed for operation at temperatures as low as 2K, making them ideal for use in cryostats for superconducting radio frequency (SRF)

Operating temperature	down to 2K
Noise level	<20pTrms/√Hz at 1 Hz
Frequency response	DC to 1 kHz
Measuring ranges	±70, ±100, ±250 and ±500μT
Number of axes	Three

price on request [datasheet](#)



BARTINGTON INSTRUMENTS

Grad-01-1000L

A single axis fluxgate magnetic gradiometer designed for use alone or as an element in an array for rapid data collection over large areas.

Resolution	around 50pT/m
Bandwidth	DC to 10 Hz
Range	±100nT/m or ±1000nT/m
Sensor element spacing	1m
Gradient range	±100nT/m or ±1000nT/m full scale

price on request [datasheet](#)



BARTINGTON INSTRUMENTS

Grad-13®

The Grad-13 is a digital three-axis gradiometer providing high resolution vector measurements of magnetic fields on land or in water, ideal for site and downhole surveying, and cab

Baselines	500 mm to 1000 mm
Versions	Land and submersible (200m)
Measuring range	± 70 or $\pm 100 \mu\text{T}$
Accelerometer range	± 2 g
Gradient noise	$< 25 \text{ pT rms}/\sqrt{\text{Hz/m}}$ at 1 Hz with 500 mm baseline

[price on request](#) [datasheet](#)



BARTINGTON INSTRUMENTS

Mag-01H D/I

The Mag-01H Declinometer/Inclinometer system provides rapid, reliable and accurate measurements of the declination and inclination of the geomagnetic field.

Accuracy	6 seconds of arc
Lifetime	20 hours
Number of axes	One
Measuring range	$\pm 0.2 \text{ mT}$
Offset in zero field	$\pm 1 \text{ nT}$

[price on request](#) [datasheet](#)



BARTINGTON INSTRUMENTS

Mag-01H®

A portable, high-performance single-axis fluxgate magnetometer with multiple probes for precision measurements of static and slowly varying magnetic fields.

Resolution	0.1 nT
Measuring range	$\pm 0.1 \text{ nT}$ to $\pm 2 \text{ mT}$
Offset control	up to $\pm 90 \mu\text{T}$ in $10 \mu\text{T}$ steps
Bandwidth	0 to 10 Hz, -12 dB per octave roll off (DC for $\times 10$ sensitivity)
Offset in zero field	$\pm 5 \text{ nT}$

[price on request](#) [datasheet](#)



BARTINGTON INSTRUMENTS

Mag-03®

The Mag-03® is a market-leading range of compact, high-performance three-axis fluxgate magnetometers with integral electronics for precision measurements of static and alternating

Noise levels	down to $< 6 \text{ pT rms}/\sqrt{\text{Hz}}$ at 1 Hz
Measuring ranges	from $\pm 70 \mu\text{T}$ to $\pm 1000 \mu\text{T}$
Bandwidth	to 3 kHz
Output	three analogue voltages from 0 to $\pm 10 \text{ V}$
Number of axes	Three

[price on request](#) [datasheet](#)



BARTINGTON INSTRUMENTS

Mag-03RCU

These three-axis range fluxgate magnetometers are designed for magnetic signature measurements and marine surveillance, operating over cables up to 2000m and submersible to 100m.

Measuring range options	$\pm 100\mu\text{T}$, $\pm 200\mu\text{T}$ or $\pm 300\mu\text{T}$
Bandwidth	DC to 3 kHz
Cable lengths	up to 2 km
Submersible depth	100m
Number of axes	Three

[price on request](#) [datasheet](#)



BARTINGTON INSTRUMENTS

Mag-13®

High performance, low noise fluxgate magnetometers for accurate measurements of magnetic fields in various applications, including space.

Number of axes	Three
Full Scale Measuring Ranges	$\pm 70\mu\text{T}$ $\pm 100\mu\text{T}$ $\pm 250\mu\text{T}$ $\pm 500\mu\text{T}$ $\pm 1000\mu\text{T}$
Scaling error	$\pm 0.5\%$
Linearity error	0.0015%
Frequency response at 50μT peak	DC to 1 kHz ($\pm 5\%$)

[price on request](#) [datasheet](#)



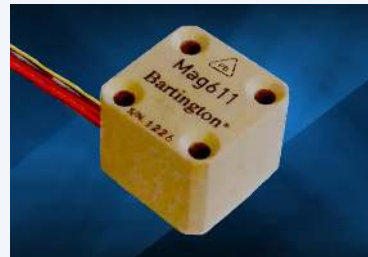
BARTINGTON INSTRUMENTS

Mag566

A low-cost miniature fluxgate magnetometer designed for low-power battery applications and multi-sensor arrays, offering high environmental protection and resistance to shock and v

Supply Voltage	$\pm 5\text{ V}$
Power Consumption	20 mW
Measuring Range	$\pm 100\mu\text{T}$
Bandwidth	0 to 30-40 Hz
Number of axes	Three

[price on request](#) [datasheet](#)



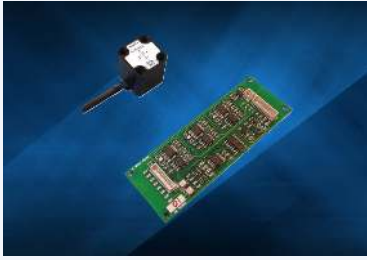
BARTINGTON INSTRUMENTS

Mag610/611

Three-axis fluxgate magnetometers operable at up to 215°C, designed to survive high levels of shock and vibration.

Operating temperature	0°C to +175°C
Bandwidth	>100 Hz
Measurement noise floor	$\leq 300\text{pT}_{\text{rms}}/\sqrt{\text{Hz}}$ at 1 Hz
Output scaling	113μT/mA typical
Scaling error	$\pm 5\%$ at 25°C

[price on request](#) [datasheet](#)



BARTINGTON INSTRUMENTS

Mag612 Miniature

This miniature three-axis fluxgate magnetometer is designed for integration into systems requiring precision measurements where space is limited, such as mobile and wearable techno

Probe size	20 x 20 x 20 mm
Noise specification	0 – 20pTrms/√Hz at 1 Hz
Number of axes	3
Measuring Range	<±1000μT
Output scaling (feedback)	104μT/mA typical

[price on request](#) [datasheet](#)



BARTINGTON INSTRUMENTS

Mag613

An 8-sensor fluxgate magnetometer array designed for magnetic signature analysis of ship and submarine scaled models and simulating closed loop degaussing.

Range	±300μT or ±500μT
Bandwidth	6 Hz
Number of axes	24 (3 x 8 - Right Hand XYZ co-ordinate system)
Measurement noise floor	<0.5nTrms/√Hz at 1 Hz
Scaling	33 mV/μT (300μT)

[price on request](#) [datasheet](#)



BARTINGTON INSTRUMENTS

Mag614-FL

Three-axis fluxgate magnetometer operating at up to 175 °C, ideal for integration into downhole tools and designed to withstand high levels of shock and vibration.

Number of axes	Three (right hand XYZ co-ordinate system)
Bandwidth (-3dB)	>3 kHz
Measurement noise floor*	15 to 300pTrms /√Hz at 1 Hz
Output scaling	105μT/mA typical
Scaling error	±5% at 25°C

[price on request](#) [datasheet](#)



BARTINGTON INSTRUMENTS

Mag619

This miniature fluxgate magnetometer is designed for integration into systems where space is limited, such as mobile and wearable technologies.

Small probe size	29x20x11 mm
Noise level	>10pT to ≤50pTrms/√Hz at 1 Hz
Number of axes	Three
Scaling	105μT/mA typical
Scaling Calibration Error	<±5%

[price on request](#) [datasheet](#)



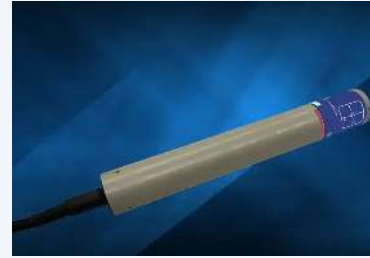
BARTINGTON INSTRUMENTS

Mag629

A packaged low-noise three-axis fluxgate magnetometer designed to meet the exacting environmental requirements of aerospace applications.

Number of axes	Three
Full Scale Measuring Range	$\pm 75 \mu\text{T}$
Bandwidth at-3dB	1.1 to 1.3 kHz
Scale factor	7.5nT/mV
Scaling Calibration Error	$\pm 0.75\%$

[price on request](#) [datasheet](#)



BARTINGTON INSTRUMENTS

Mag639

This wide bandwidth fluxgate magnetometer offers measurements from DC to 12kHz of field strengths up to $\pm 100 \mu\text{T}$, featuring a non-conductive cylindrical enclosure to prevent eddy cur

Bandwidth	DC to 12 kHz
Noise level	$< 20 \text{pT}_{\text{rms}}/\sqrt{\text{Hz}}$ at 1 Hz
Measuring range	$\pm 100 \mu\text{T}$
Environmental sealing	IP65
Offset error	$< 50 \text{nT}$

[price on request](#) [datasheet](#)



BARTINGTON INSTRUMENTS

Mag644

The Mag644 is a 24mm single axis fluxgate probe, unpackaged and lightweight, designed for integration into various systems.

Number of axes	One
Fluxgate Length	14 mm
Primary Resistance (Excitation)	$8 \Omega \pm 1 \Omega$
Primary Inductance (Excitation)	$650 \mu\text{H} \pm 100 \mu\text{H}$
Secondary Resistance (Detection)	$45 \Omega \pm 1.5 \Omega$

[price on request](#) [datasheet](#)



BARTINGTON INSTRUMENTS

Mag646/710

The Mag646 and Mag710 are low cost, compact, and versatile three-orientation fluxgate magnetometers, ideal for OEM system integration and measuring static and alternating fields up

Frequency response	DC to 1 kHz
Measuring ranges	$\pm 100 \mu\text{T}$, $\pm 200 \mu\text{T}$, $\pm 500 \mu\text{T}$ or $\pm 1000 \mu\text{T}$
Fluxgate element orientations	In-line, Diagonal or Right-angle
Number of axes	One
Polarity	+ve output when pointing North

[price on request](#) [datasheet](#)



BARTINGTON INSTRUMENTS

Mag648 / Mag649®

The Mag648 and Mag649 are compact, low-noise, three-axis fluxgate sensors designed for magnetic field measurements from DC up to 1kHz, ideal for battery-powered applications.

Power consumption	<15 mW
Noise (low noise version)	<10pTrms/√Hz at 1 Hz
Bandwidth (Mag648)	to 30 Hz
Bandwidth (Mag649®)	to 1 kHz
Measuring range	±60μT or ±100μT

[price on request](#) [datasheet](#)



BARTINGTON INSTRUMENTS

Mag652

An ultra-low-power magnetic event sensor designed for remote, environmentally rugged locations where battery power is essential.

Sensitivity	>1nT
Current consumption	<700 μA
Number of axes	2
Full Scale Measuring Range	±60μT
Frequency	0.1 to 5 Hz

[price on request](#) [datasheet](#)



BARTINGTON INSTRUMENTS

Mag658

The Mag658 is an unpackaged digital three-axis fluxgate magnetometer offering precise vector field measurements and integrated accelerometers for orientation data.

Number of axes	Three
Measuring range	±524.287μT
Bandwidth	≥15 Hz ±3 Hz
Resolution	62.5pT/bit
Warm up time	15 mins

[price on request](#) [datasheet](#)



BARTINGTON INSTRUMENTS

Mag669®

Unpackaged low-noise three-axis magnetometer designed to meet the environmental needs of aerospace, ideal for vector compensation in airborne magnetometry.

Full-scale range	±75μT
Continuous operating temperature range	-55°C to +55°C
Low noise	<5pTrms/√Hz at 1 Hz
Number of axes	Three
Scale factor	7.5nT/mV

[price on request](#) [datasheet](#)



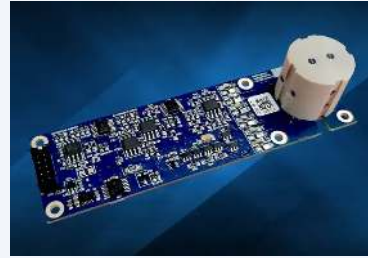
BARTINGTON INSTRUMENTS

Mag693U

This ultra-low cost unpackaged 3-axis analogue magnetic field sensor is designed for cost-critical applications, allowing users to integrate it into their own systems due to its sm

Full Scale Measuring Range	100μT
Scaling Calibration Error at 23°C	<±5%
Linearity Error	0.05% FS Range
Frequency Response	DC to 100 Hz
Bandwidth at -3dB	500 Hz minimum

[price on request](#) [datasheet](#)



BARTINGTON INSTRUMENTS

Mag900/901

Low power 3-axis magnetometers for surveillance applications, offering high sensitivity magnetic field measurements within a narrow noise band.

Noise band	≤10pTrms/Hz @ 1 Hz (After magnetic settling time)
Measuring range	±60 and ±100μT
Scaling Calibration Error	±0.5%
Scaling Temperature Coefficient	<135ppm/°C (60μT)
Linearity Error	<0.0033%

[price on request](#) [datasheet](#)



BARTINGTON INSTRUMENTS

Spacemag-Lite®

A highly capable three-axis fluxgate magnetometer designed for spaceflight applications, particularly suitable for low Earth orbit (LEO) missions where cost is critical.

Probe Width	20 mm
Thermal Vacuum Testing	<10 ⁻⁵ mbar
Operating Temperature (Thermal Vacuum)	-30°C to +60°C
Operating Temperature (EMC Approved)	-40°C to +65°C (up to +85°C)
EMC Approvals	BS EN61326

[price on request](#) [datasheet](#)



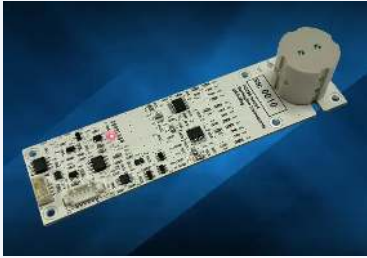
BARTINGTON INSTRUMENTS

Spacemag@-2

A highly capable three-axis fluxgate magnetometer designed for a variety of low Earth orbit (LEO) spaceflight missions, especially where cost is critical.

Sensor Head Width	20 mm
Bandwidth	25-30 Hz -3dB 0°C to +30°C
Noise	<20pTrms/√Hz at 1 Hz

[price on request](#) [datasheet](#)



BARTINGTON INSTRUMENTS

UAS-Mag®

A 3-Axis fluxgate magnetometer with a DroneCAN (UAVCAN) communication interface, designed especially for use on UAS platforms.

Number of Axes	Three
Maximum Measuring Range	±105µT
Scaling Calibration Error	<±0.5%
Linearity Error	<0.02%
Bandwidth at -3dB	>300 Hz

price on request [datasheet](#)

Comat

FRANCE · 1963 · 1 PRODUCT

Comat is a French aerospace equipment manufacturer, part of the Hemeria group, designing flight hardware and mechanisms for small satellites, telecommunications/observation payloads, and space exploration missions.



COMAT

Stratospheric Balloon Hardware

Precision mechanical hardware supplied by Comat for stratospheric balloon-borne scientific instrument platforms.

price on request

EIE Space Technologies Srl

ITALY · 1 PRODUCT

EIE Space Technologies Srl operates in the Space sector. The company designs and manufactures support equipment for model testing.



EIE SPACE TECHNOLOGIES SRL

MROI – Magdalena Ridge Observatory Interferometer

The Magdalena Ridge Observatory Interferometer (MROI) is an optical-infrared interferometer composed of 10 elements, currently under construction in New Mexico, USA.

Site	New Mexico, Magdalena Mountains, Cibola National Forest, Socorro County USA
State	Under Construction
Data	2015-2024
Cliente	New Mexico Institute of Mining and Technology (NMT)
Telescope Diameter	1.4m (each of 10 telescopes)

price on request

ETH Zurich - Space Geodesy

SWITZERLAND · 1 PRODUCT

ETH Zurich is Switzerland premier technical university with a strong space research program focused on satellite geodesy, satellite navigation, and space instrumentation. The institute contributes to ESA missions including CHEOPS and advanc



ETH ZURICH - SPACE GEODESY

CHEOPS Photometer

High-precision photometer developed by ETH Zurich for the ESA CHEOPS exoplanet characterization mission, launched in 2019.

Type	Space photometer
Host mission	ESA CHEOPS
Launch	December 18, 2019
Launch vehicle	Soyuz-Fregat
Orbit	LEO, SS0 ~700 km

price on request

fantana

AUSTRIA · 1 PRODUCT

Fantana develops satellite-based sensor systems for Earth observation, communication, and space surveillance, utilizing integrated optoelectronics for various applications.



FANTANA

Doppler Wind Lidar

Highly integrated, single-photon-based Doppler wind lidar — ultra-compact sensors for aviation, industry, and renewable energy applications.

Development started	2021
Detection technology	Single-photon detection
Applications	Aviation, industrial, renewable energy

price on request

GHGSat

CANADA · 2011 · 1 PRODUCT

GHGSat is the global leader in high-resolution satellite-based remote sensing of greenhouse gas emissions, pinpointing methane and CO2 leaks down to individual industrial facilities worldwide.



GHGSAT

GHGSat Satellite Constellation & DATA.SAT

GHGSat's commercial constellation of small satellites carrying a patented high-resolution imaging spectrometer, delivering year-round, worldwide methane and CO2 emissions monitorin

Satellites in orbit	15 commercial satellites (as of 2025)
Spatial resolution	~25 m per pixel
Orbital altitude	~500 km
Satellite dimensions	~20 x 30 x 40 cm (small satellite form factor)
Sensor technology	Patented Wide-Angle Fabry-Perot (WAF-P) imaging interferometer

price on request

[datasheet](#)

Glavkosmos

RUSSIA · 1985 · 1 PRODUCT

Glavkosmos coordinates international human spaceflight projects, facilitates satellite launches, develops and supplies rocket components, and provides equipment for space crews.



GLAVKOSMOS

Onboard Infrared Fourier Spectrometer

An infrared Fourier spectrometer designed for spacecraft to measure outgoing thermal radiation spectra with high spectral resolution for operational meteorology and climatology.

Operation spectral range	5-15 mkm
Spectral resolution, no more	0.5 1/sm
Threshold spectral brightness (nesr), (mw*sm)/ (m2*average)	0.15-0.45
The measurement error of the spectral brightness of the object (in terms of equivalent temperature) at a wavelength of 11 ... 12 microns and at an object temperature of 280 ... 300 k	0.5 K
Swath width	to 2500 km

price on request

Kayser Space

ITALY · 1986 · 1 PRODUCT

Kayser Space designs, manufactures, integrates, and tests hardware and platforms for space programs, supporting over 100 missions and microgravity research.

KAYSER SPACE

Life Science Equipment

Kayser Space develops a broad range of life science equipment designed for human spaceflight and biological research in microgravity. These systems address the need to monitor astr

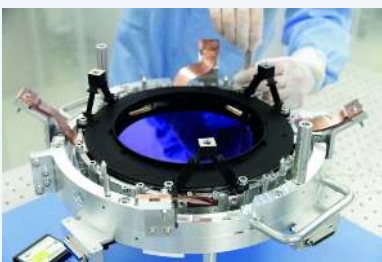
Instruments	APHRODITE, IRIS, MIDASS, BIOPACK, BOREALIS, ALCYONE
Application	Astronaut monitoring, space biology research

price on request

Lidax

SPAIN · 1 PRODUCT

Madrid-based aerospace engineering company specialising in opto-mechanical systems, flexible thermal straps, and cryogenic units for space missions.



LIDAX

Focal Plane Assemblies (FPA)

Custom-designed focal plane assemblies carrying detector arrays for space telescopes and X-ray/IR/UV/visible instruments, flown on ESA's PLATO and BepiColombo missions.

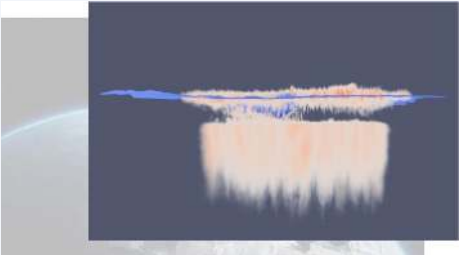
Flight heritage	26 Focal Plane Assemblies delivered for ESA PLATO mission (all telescopes); focal plane fo
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Interface	Custom detector array integration (CCD/CMOS) tailored to host instrument
TRL	9 (flight-proven on PLATO and BepiColombo)
price on request	

Lunasonde

2018 · 1 PRODUCT

Lunasonde develops and deploys aerial low-frequency radar technology for high-resolution 3D subsurface imaging and critical mineral exploration from aerial platforms.



LUNASONDE

aGRT Aerial Georadiotomography

Aerial radar technology generating 3D subsurface composition maps from the air with zero drilling or ground disturbance — operates at frequencies 1000x lower than traditional radar

Operating frequency	~1000x lower than traditional radar
Demo survey altitude	Up to 10,000 ft
Permittivity readings	Copper ore 10.2, granite 3.0
Claimed efficiency	10x faster and cheaper exploration
Ground disturbance	Zero (fully aerial, no drilling)

price on request

Magson GmbH

GERMANY · 4 PRODUCTS

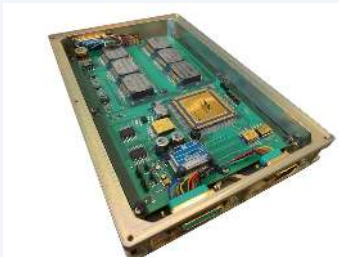
Magson GmbH is a Berlin-based manufacturer of high-performance digital fluxgate magnetometers for terrestrial and space applications, including spacecraft attitude control systems.



MAGSON GMBH

Ocean Bottom Magnetometer

Titanium-encapsulated ocean bottom magnetometer with mass memory for submarine gas hydrate exploration and basic research.



MAGSON GMBH

Science Magnetometer (Space Payload Fluxgate Magnetometer)

Space-qualified tri-axial fluxgate magnetometer used as a scientific payload instrument on spacecraft missions.

Housing	Titanium pressure tube (deep-sea rated)
Data storage	Onboard mass memory
Optional extension	Inertial measurement unit (IMU)
Power	Battery-powered variant available
E-field sample rate (battery variant)	Up to 10 kHz
price on request	

Sensor type	Tri-axial vector-compensated fluxgate (ringcore, dual crossed ringcores)
Noise level	< 15 pT/sqrt(Hz) @ 1 Hz
Long-term stability	Offset drift < 3 nT/year
Feedback coil material	Copper and aluminum (matched ~20 ppm/K thermal expansion)
Signal processing	FPGA-based instrument control and digital data processing
price on request	



MAGSON GMBH
Ship-Board Magnetometer

Waterproof, thermally isolated dual-sensor magnetometer for geomagnetic vector measurement mounted on research vessels.

Configuration	Dual-sensor fluxgate magnetometer
Housing	Seawater-resistant, waterproof, thermally isolated
Thermal stabilization	Optional dedicated heating unit
Correction inputs	Ship IMU, sensor-internal inclinometer, GPS
Deployment	Hull-mounted on research vessels

price on request



MAGSON GMBH
Tow Fish Magnetometer

Towed single or dual-sensor fluxgate magnetometer housed in a fiberglass tow fish for ocean floor magnetic surveys.

Configuration	One or two fluxgate sensors
Housing	Fiberglass tow fish body (Marine Magnetics)
Auxiliary sensor	Inclinometer
Power/data link	Umbilical tow cable
Primary application	Ocean floor magnetic signature survey

price on request

Mission Space

LUXEMBOURG · 1 PRODUCT

Space weather forecasting company combining satellite constellations and AI to protect space and ground assets.



MISSION SPACE
Mission Space Radiation Monitoring Instruments (ZOHAR, SOLARIS, LEEMR)

Ultra-compact radiation monitoring payloads under 1 W: ZOHAR-I silicon telescope and Cherenkov monitor (flight proven), SOLARIS deep-space suite, LEEMR lunar dust and surface-charge

PI-1f dimensions / mass / power	85 x 50 x 70 mm / < 0.6 kg / < 1 W
PI-1m dimensions / mass / power	85 x 50 x 75 mm / < 0.6 kg / < 1 W
PI-2 dimensions / mass / power	147 x 95 x 30 mm / < 0.7 kg / < 1 W
PI-3m dimensions / mass / power	85 x 50 x 60 mm / < 1 kg / < 1.5 W (preliminary)
PI-1 charged particle ranges	Electrons 0.1 to 10 MeV, protons 1 to 250 MeV

price on request

MWSE - Microwave Sensors and Electronics

SPAIN · 1 PRODUCT

Spanish developer of multi-frequency microwave space payloads, radars, radiometers, and GNSS reflectometers for space and airborne platforms.



MWSE - MICROWAVE SENSORS AND ELECTRONICS

MWSE Space Microwave Payloads (GASPER / FMPL-2 / GBSAR)

Spanish company developing L-band radiometers, GNSS reflectometers, software-defined radio payloads and ground-based synthetic aperture radars for small satellite and nanosatellite

Space payload: gasper	Galileo-enabled in-orbit receiver for IOD/IOV missions
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Space payload: fmpl-2	L-band radiometer + GNSS-Reflectometer SDR; flown on 3Cat-5/A nanosatellite
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Space payload: fsscat RF front-end	L-band radiometer and GNSS-R reflectometer channels for FSSCat mission
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Ground system: mfp-gbsar	Multi-frequency full-polarization ground-based SAR for InSAR deformation monitoring
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Frequency bands	L-band (primary); multi-frequency radar
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price on request

NARIT (National Astronomical Research Institute of Thailand)

THAILAND · 2009 · 5 PRODUCTS

Thailand's national public organization for astronomical research, operating the country's largest optical and radio telescopes and leading regional astronomy technology development.

NARIT (NATIONAL ASTRONOMICAL RESEARCH INSTITUTE OF THAILAND)

2.4-metre Thai National Telescope

NARIT (NATIONAL ASTRONOMICAL RESEARCH INSTITUTE OF THAILAND)

EXOhSPEC Exoplanet High-Resolution Spectrograph

price on request

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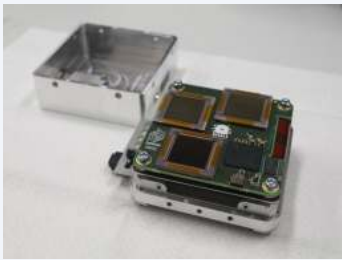
1975 · 1 PRODUCT

price on request

HUNGARY · 2010 · 1 PRODUCT

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and ISRU support.



PULI SPACE TECHNOLOGIES

Puli Lunar Water Snooper (PLWS)

NASA-prize-winning miniature neutron spectrometer for mapping water ice in lunar south polar soil, flight-proven on Intuitive Machines' IM-2 mission in 2025.

Instrument type	Miniature neutron spectrometer
Measurement	Albedo neutron count rates (subsurface hydrogen / water ice proxy)
Mission heritage	IM-2 (Intuitive Machines), launched February 2025, Micro Nova Hopper
Location	Lunar south pole, permanently shadowed region
Award	NASA JPL 'Honey, I Shrunk the NASA Payload, The Sequel' 2nd prize (2022)

price on request

Serenum Space

CZECH REPUBLIC · 2020 · 1 PRODUCT

SERENUM Space is a CubeSat component and BUS manufacturer, integrator, and service provider based in Brno, Czech Republic, and a commercially oriented subsidiary of VZLU AEROSPACE.



SERENUM SPACE

Space X-Ray Detector (SXD)

Compact digital spectrometer and dosimeter using a space-rated silicon detector for radiation measurement on CubeSats and SmallSats.

Detector type	Space-rated silicon ionizing radiation detector
Function	Dosimeter and spectrometer
Target platforms	CubeSats, SmallSats, drones, handheld applications
Availability	12 weeks

price on request

Czech manufacturer (Prague) of Space-Friendly CubeSat and PocketQube subsystems: GNSS/AIS/ADS-B antennas, BusCORE radio terminals, ADCS sensors, and dosimeters, in continuous orbital operation since 2017.



SKYFOX LABS S.R.O.
piDOSE-DCD/FM (Flight Model)

The piDOSE-DCD is the industry's first digital CubeSat dosimeter (Geiger Counter), designed to provide information about local gamma ray radiation background aboard small satellite

Part Number	piDOSE-DCD/FM (Flight Model)
Space Weather Alarm (SWA)	triggered over 40 uSv/h
Trigger set to	2x ISS Average Dose Rate
Use	Orbital and High Altitude Balloon (HAB)
TRL	9

price on request



SKYFOX LABS S.R.O.
piPLASMA/FM (Flight Model)

The piPLASMA is the World's First Space-Friendly™ CubeSat Space Flight and Weather Monitor unit intended for in-situ orbital and environmental measurements.

TRL	9
Power consumption	165 to 640 mW, 3.3 V, mode dependent
Connectors	PC/104+ pin header (System Interface), 3x MCX (GPS Antenna, Langmuir Probe, Photoelectric
Mass	128 grams
Lead Time	2-4 Weeks + Shipping

price on request

Space Dynamics Laboratory (SDL) is a nonprofit government contractor owned by Utah State University, providing electro-optical sensors, small satellites from nano to ESPA class, calibration services, and real-time data reconnaissance system



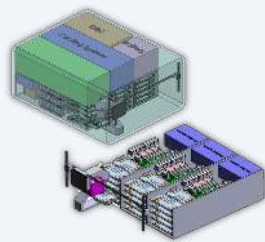
SPACE DYNAMICS LAB
ATMS Advanced Technology Microwave Sounder

Cross-track scanning passive microwave sounder providing atmospheric temperature and moisture profiles for NOAA/NASA weather satellites.

Type	Passive microwave sounder
Channels	22 channels
Frequency range	23 GHz to 183 GHz
Swath	2300 km
Flight heritage	Suomi-NPP, NOAA-20, NOAA-21

price on request

Swiss-Israeli micro-gravity biotech company building miniaturized, fully automated lab-in-space hardware for pharmaceutical R&D flown on the ISS and free-flying nanosatellites.



SPACEPHARMA
SPACTORY

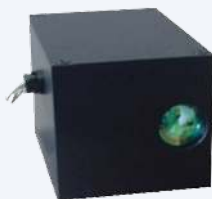
SPACTORY is a miniaturized, fully automated drug manufacturing facility designed for operation in space, leveraging microgravity to produce purer and more stable pharmaceutical for

Dimensions	24U, 20x30x40 cm
Production lines	Four
Flow reactors	44
Pumps	More than 36 (advanced flow handling system)
Microscopy	Visible and fluorescence microscopy

price on request

Thoth Technology

Canadian space company: Argus infrared spectrometers for nanosatellites, ground stations and deep-space network services.



THOTH TECHNOLOGY
Argus 1000 Infrared Spectrometer

The Argus 1000 is a miniature, ruggedized infrared spectrometer with integrated optics designed for remote sensing applications, including environmental monitoring and process cont

Operating wavelength band (Standard)	1000 nm to 1700 nm
Operating wavelength band (Extended)	up to 2400 nm
Detector type	InGaAs detector array
Detector elements	approximately 100 illuminated elements
Detector cooling	Actively cooled



THOTH TECHNOLOGY
Argus 2000 Infrared Spectrometer

Compact InGaAs infrared spectrometer with integrated foreoptics, available in Lab, Space, UAV and Extended-Range grades, built on Thoth's flight-heritage Argus electronics.

Detector	InGaAs, 1000-1650 nm infrared range (1240-2000 nm or 1730-2200 nm on Extended Range grade)
Spectral resolution	6 nm
Dimensions	80 x 46 x 80 mm
Mass	~280 g
Interface	15 mm aperture, 0.15 deg field of view

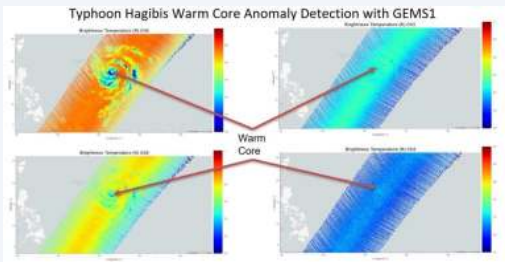
price on request [datasheet](#)

price on request [datasheet](#)

WeatherStream (formerly Orbital Micro Systems)

UNITED STATES · 2015 · 4 PRODUCTS

Microsatellite company building compact microwave-radiometer payloads (GEMS) for near-real-time global weather and atmospheric data



WEATHERSTREAM (FORMERLY ORBITAL MICRO SYSTEMS) Global Environmental Monitoring System (GEMS)

The GEMS family of microwave radiometer instruments are designed to reduce the costs of satellite meteorology and enable improved global weather forecasting.

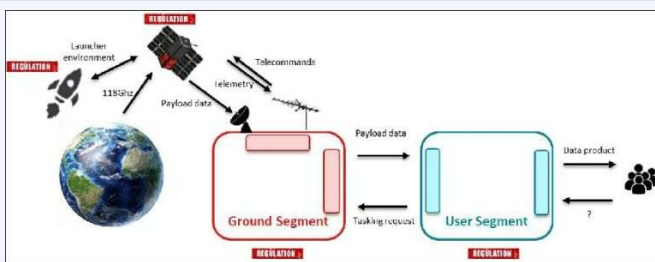
price on request



WEATHERSTREAM (FORMERLY ORBITAL MICRO SYSTEMS) Global Environmental Monitoring System (GEMS2)

GEMS2 CubeSats will improve the global availability of critical weather data utilizing multi-band microwave radiometers that improve the temporal and spatial resolution of microwave

price on request

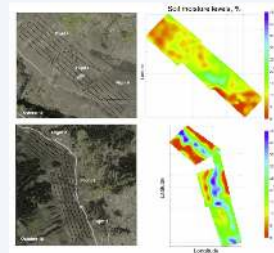


WEATHERSTREAM (FORMERLY ORBITAL MICRO SYSTEMS) MiniRad

MiniRad is a miniaturized passive microwave radiometer built by Orbital Micro Systems (OMS) that measures atmospheric temperature, humidity and precipitation from a 3U CubeSat, flo

Mission type	E0
Agency	Orbital Micro Systems Ltd.
Mission status	Mission complete
Launch date	17 Apr 2019
End of life date	17 Apr 2021

price on request



WEATHERSTREAM (FORMERLY ORBITAL MICRO SYSTEMS) Soil Moisture Data

Weather Stream offers high-resolution soil moisture measurements using uncrewed aerial systems, providing detailed soil moisture mapping across various terrains.

price on request

Xi'an Institute of Optics and Precision Mechanics (XIOPM)

CHINA · 1962 · 1 PRODUCT

Chinese Academy of Sciences research institute in Xi'an developing space optics, precision photonic instruments, and optical remote sensing payloads for China's satellite and space programs.

XI'AN INSTITUTE OF OPTICS AND PRECISION MECHANICS (XIOPM)

XIOPM Space Optical Instruments

Chinese Academy of Sciences institute developing high-precision optical instruments and remote sensing payloads for Chinese satellite and space station missions.

Focus	Optical instruments, remote sensing payloads, laser systems
Parent	Chinese Academy of Sciences (CAS)
Flight heritage	Earth observation, lunar missions, Tiangong Space Station
price on request	

Manufacturers in this sector

27G Technology

Hungary · 1 product

R&D company providing miniaturized radiation dosimeters and EMC filters for space and ground applications. TRL-9 flight heritage.

AAC Clyde Space

Sweden · 1999 · 1 product

AAC Clyde Space provides small satellite technologies and space-based data services, offering end-to-end solutions from satellite components to data analytics for various applications.

ABB Space Division

Switzerland · 1988 · 1 product

Swiss-Swedish technology company providing sensors, instruments, and automation systems for space applications.

Bartington Instruments

United Kingdom · 27 products

Bartington Instruments manufactures magnetometers, Helmholtz coil systems, and magnetic susceptibility gradiometers. These products are used in aerospace, space, and high altitude applicatio

Comat

France · 1963 · 1 product

Comat is a French aerospace equipment manufacturer, part of the Hemeria group, designing flight hardware and mechanisms for small satellites, telecommunications/observation payloads, and spa

EIE Space Technologies Srl

Italy · 1 product

EIE Space Technologies Srl operates in the Space sector. The company designs and manufactures support equipment for model testing.

ETH Zurich - Space Geodesy

Switzerland · 1 product

ETH Zurich is Switzerland premier technical university with a strong space research program focused on satellite geodesy, satellite navigation, and space instrumentation. The institute contr

fantana

Austria · 1 product

Fantana develops satellite-based sensor systems for Earth observation, communication, and space surveillance, utilizing integrated optoelectronics for various applications.

GHGSat

Canada · 2011 · 1 product

GHGSat is the global leader in high-resolution satellite-based remote sensing of greenhouse gas emissions, pinpointing methane and CO2 leaks down to individual industrial facilities worldwid

Glavkosmos

Russia · 1985 · 1 product

Glavkosmos coordinates international human spaceflight projects, facilitates satellite launches, develops and supplies rocket components, and provides equipment for space crews.

Kayser Space

Italy · 1986 · 1 product

Kayser Space designs, manufactures, integrates, and tests hardware and platforms for space programs, supporting over 100 missions and microgravity research.

Lidax

Spain · 1 product

Madrid-based aerospace engineering company specialising in opto-mechanical systems, flexible thermal straps, and cryogenic units for space missions.

Lunasonde

2018 · 1 product

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Germany · 4 products

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Mission Space

Luxembourg · 1 product

Space weather forecasting company combining satellite constellations and AI to protect space and ground assets.

MWSE - Microwave Sensors and Electronics

Spain · 1 product

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NARIT (National Astronomical Research Institute of Thailand)

Thailand · 2009 · 5 products

Thailand's national public organization for astronomical research, operating the country's largest optical and radio telescopes and leading regional astronomy technology development.

Paras Defence and Space Technologies

1975 · 1 product

Paras Defence and Space Technologies designs and manufactures components and systems for space research, rocket/missile programs, naval systems, armoured vehicles, and electronic warfare.

Puli Space Technologies

Hungary · 2010 · 1 product

Hungarian lunar technology company developing the Puli Lunar Water Snoopers neutron spectrometer and Puli rover for lunar south pole water ice mapping and ISRU support.

Serenum Space

Czech Republic · 2020 · 1 product

SERENUM Space is a CubeSat component and BUS manufacturer, integrator, and service provider based in Brno, Czech Republic, and a commercially oriented subsidiary of VZLU AEROSPACE.

SkyFox Labs s.r.o.

Czech Republic · 2014 · 2 products

Czech manufacturer (Prague) of Space-Friendly CubeSat and PocketQube subsystems: GNSS/AIS/ADS-B antennas, BusCORE radio terminals, ADCS sensors, and dosimeters, in continuous orbital operation.

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SpacePharma

Switzerland · 2012 · 1 product

Swiss-Israeli micro-gravity biotech company building miniaturized, fully automated lab-in-space hardware for pharmaceutical R&D flown on the ISS and free-flying nanosatellites.

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Canadian space company: Argus infrared spectrometers for nanosatellites, ground stations and deep-space network services.

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