

NEWSPACE MARKET · COMPANY PROFILE



VECTRONIC Aerospace GmbH

Germany · founded 2000 · vectronic-aerospace.com

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as of 20 August 2026



VECTRONIC Aerospace GmbH

VECTRONIC Aerospace GmbH is a German company founded in 2000 and headquartered in Berlin, specializing in attitude determination and control systems (ADCS), power control electronics, data handling, and RF subsystems for small satellite missions. The company has accumulated more than 25 years of space flight heritage across numerous commercial and scientific satellite constellations. VECTRONIC's space product portfolio includes reaction wheels with angular momentum from 0.2 Nms to 8 Nms with configurable torque options, high-accuracy star trackers achieving first-lock acquisition in under one second, power control units, and on-board computer solutions. All products are developed for full series production, enabling the company to offer competitive pricing and short lead times even for constellation programs. The company operates a dual market strategy: alongside its space applications division, VECTRONIC is a world leader in precision GPS wildlife tracking collars used by ecologists and conservation scientists across 76 countries. This dual focus enables the company to sustain a team of approximately 70 engineers and scientists working across both domains. VECTRONIC maintains production facilities in Berlin and a subsidiary, VECTRONIC Aerospace Inc., in Coralville, Iowa, USA, serving North American space programs and customers.

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

Airtime Management in INVENTA

Customers with Device Owner or Device Manager permissions can manage their collar airtimes directly within the INVENTA platform.

Collar Check-up and Refurbishment

Customers can send used wildlife monitoring collars back to VECTRONIC Aerospace for check-up and refurbishment, with charges applied based on necessary repairs or upgrades.

Collar Programming and Configuration

The company ships wildlife monitoring collars fully programmed and configured to customer requirements, allowing direct deployment and remote reprogramming.

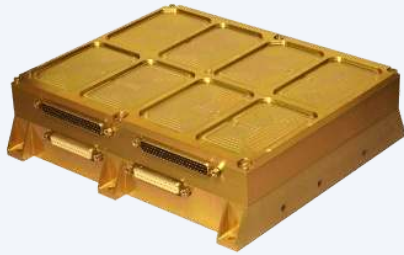
Custom Collar Design

VECTRONIC Aerospace designs each wildlife monitoring collar exclusively for the customer's specific needs, ensuring optimal sensors without unnecessary weight or costs.

Customer Support and Guidance

VECTRONIC Aerospace offers comprehensive, free, and time-unlimited customer support for wildlife monitoring collars, including setup guidance, remote desktop support, and call-back service worldwide.

Product catalogue



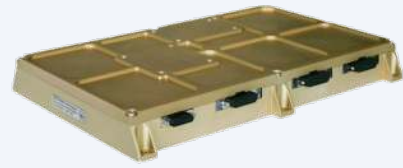
VECTRONIC AEROSPACE GMBH

On-Board Data Handling

VECTRONIC Aerospace On-Board Data Handling systems are designed for small satellite applications, processing telecommands and providing autonomy with event-triggered processes.

Power Consumption	around 1.5 W
Signal Interface	user definable number of standard asynchronous SCI's on RS422/RS485 level
Baud Rate	adjustable up to 1Mbaud
Flight Heritage	7 slightly different On-Board Data Handling systems in Orbit and several others waiting fo

price on request



VECTRONIC AEROSPACE GMBH

Payload Data Handling System VPDHS

The VPDHS is a Payload Data Handling System developed by VECTRONIC Aerospace for small satellite applications, designed to receive, store, compress, and format payload data for tra

Dimensions	290 mm x 192 mm x 34 mm
Mass	2.3 kg
Mounting pattern	6 x M4
Power consumption	Max 15 W
Power Supply	9V – 18V, 18V – 36V
Signal interface	RS422 / RS485
Signal characteristics	Serial asynchronous

price on request

[datasheet](#)



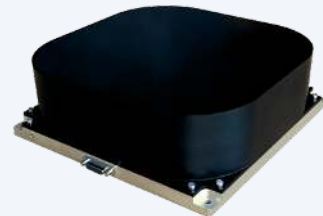
VECTRONIC AEROSPACE GMBH

VPCDU-1 Power Control and Distribution Unit

The VPCDU-1 is a highly integrated spaceborne power control and distribution unit for small satellites, managing power from solar arrays and batteries to subsystems and payloads.

Dimensions	220 mm x 160 mm x 117.4 mm
Mass	4.14 kg
Mounting pattern	6 x M5
Standby Power consumption @25V	2.5 W (typical)
Auxiliary Supply	
Solar arrays input voltage range	22.5 V to 60 V
Battery input voltage range	22.5 V to 36 V
Max. power input range (overall)	360 W

price on request



VECTRONIC AEROSPACE GMBH

VRW Reaction Wheels

A modular family of space-qualified reaction wheels from VECTRONIC Aerospace, spanning 0.2 Nms to 8 Nms angular momentum, for small satellite attitude control.

Angular momentum range (series)	0.2 Nms to 8 Nms
Nominal in-orbit lifetime	>45,000 hours
VRW-B-02 – Dimensions	70 mm x 70 mm x 48 mm
VRW-B-02 – Mass	1.0 kg
VRW-B-02 – Moment of Inertia (rotor)	3.4*10 ⁻⁴ kgm ²
VRW-B-02 – Mounting pattern	4x M4 62.5 mm x 62.5 mm
VRW-B-02 – Power consumption @steady state, no speed	<1.1 W

price on request



VECTRONIC AEROSPACE GMBH

VRW-B-02 Reaction Wheel

Compact low-momentum reaction wheel for small satellites, 0.2 Nms angular momentum.

Dimensions	70 mm x 70 mm x 48 mm
Mass	1.0 kg
Max. Angular Momentum	0.2 Nms
Max. Torque	± 20 mNm
Max. Speed	± 6000 rpm
Input Voltage Range	9 VDC to 36 VDC
Power Consumption (steady state, max speed)	<4.5 W

[price on request](#)

[datasheet](#)



VECTRONIC AEROSPACE GMBH

VST-68M, VST-41M Star Trackers

The VST-series star trackers are high-performance attitude determination sensors for small satellites, offering radiation tolerance and suitable for various orbital and interplanet

Dimensions (with baffle) VST-68M	60 mm x 60 mm x 138 mm
Mass VST-68M	0.470 kg
Mounting pattern VST-68M	4 x M4 50 mm x 90 mm
Power consumption, max VST-68M	3.0 W
Input voltage range (VCD) VST-68M	9 to 40
Signal interface VST-68M	2 x RS422 / 2 x CAN
Signal characteristics VST-68M	Serial asynchronous / CAN

[price on request](#)

[datasheet](#)

Contact VECTRONIC Aerospace GmbH

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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