

NEWSPACE MARKET · COMPANY PROFILE



NanoAvionics

Lithuania · founded 2014 · nanoavionics.com

28

PRODUCTS

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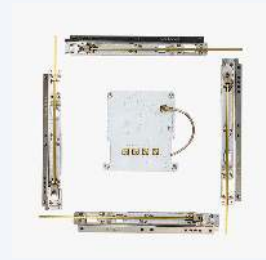
as of 20 August 2026

NanoAvionics

NanoAvionics is a Lithuanian-American nanosatellite bus and mission integrator founded in 2014, headquartered in Vilnius, Lithuania, with offices in the United Kingdom and the United States. The company designs and manufactures small satellite platforms from 1U to 16U CubeSat form factors and provides full mission integration services. NanoAvionics is best known for its M6P satellite bus — a flight-proven 6U platform with integrated propulsion, ADCS, communications, and OBC in a compact form factor suitable for Earth observation, IoT connectivity, and technology demonstration missions. The company has also developed the 16U platform for higher-power and higher-mass missions. The company provides full mission services including requirements definition, payload integration, test, launch brokerage, and on-orbit operations. NanoAvionics has delivered satellites for commercial constellation operators, government agencies, and research institutions across Europe, North America, and Asia. In 2021, NanoAvionics was acquired by satellite communications company Kongsberg NanoAvionics (later expanded into a strategic partnership), reinforcing its position as a leading European nanosatellite manufacturer and enabling synergies with larger satellite programs.

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.

Product catalogue



NANOAVIONICS

CubeSat & SmallSat UHF Antenna System

UHF turnstile antenna system for CubeSat and SmallSat, covering 400–500 MHz with circular polarization and near-omnidirectional radiation pattern.

Antenna type	Turnstile / Quad-Monopole
Polarization	Circular
Frequency range	400 MHz to 500 MHz
RF Impedance	50 Ohm
RF input connector	MCX (50 Ohm)
Max RF Power	10 W
Configurations	CubeSat (integrated splitter + 4 monopoles), SmallSat (separate splitter + 4 monopoles), s

from €5 300



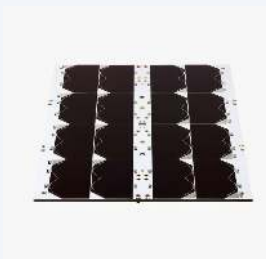
NANOAVIONICS

CubeSat Electrical Power System 1.0 (EPS)

CubeSat EPS with integrated BMS, 4 MPPT converters, 18 output channels, up to 175 W output power, and optional 161 Wh external battery pack.

MPPT converters	4 converters with 8 solar panel input channels
Solar panel input voltage	Wide range (multiple MPPT channels)
Output power (max)	175 W
Output channels	18 channels (switchable autonomously or by ground command)
Battery type	On-board Lithium-Ion
Battery balancing	Integrated
Battery heaters	Integrated

from €8 470



NANOAVIONICS

CubeSat GaAs Solar Panel

NanoAvionics GaAs (Triple junction GaInP/GaInAs/Ge epitaxial structure) solar arrays are high-performance, space-grade solar cells designed for CubeSat missions with high power req

Solar cell efficiency	up to 29.5 %
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price on request



NANOAVIONICS

CubeSat Payload Controller

Dedicated payload controller / on-board data storage module for CubeSat experiments.

Type	Payload data / control unit
Function	Power switching, data acquisition, storage
Flight heritage	60+ satellites launched, 300+ in production (per nanoavionics.com)

price on request



NANOAVIONICS

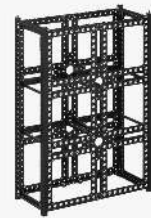
CubeSat Reaction Wheels Control System (SatBus 4RW)

The SatBus 4RW is a reaction/momentum wheel system offered as a separate component (RW0) or an integrated four-reaction-wheel redundant 3-axis control system (4RW0) for CubeSats an

CubeSat reaction wheel starting price (RW0)	€ 4,100
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Minimum order quantity for RW0 subsystem	4 pieces
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from €4 100



NANOAVIONICS

CubeSat Structural Frame

Modular 7075-T7351 aluminum CubeSat structural frames for 6U–16U satellites, PC-104 compatible, hard-anodized, NASA GEVS 7000 compliant.

Material	7075-T7351 aluminum alloy
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Finish	Hard-anodized black or natural (CubeSat standard)
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Magnetic properties	Non-magnetic
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Standards	CubeSat Design Specification, PC/104 stack standard
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Shock & vibration qualification	NASA GEVS 7000
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Available sizes	6U, 8U, 12U, 16U
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6U frame price	€5,040 per unit
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€5 040



NANOAVIONICS

M12P 12U CubeSat Nanosatellite

The NanoAvionics M12P is a 12U CubeSat bus featuring double deployable solar panels for efficient power generation, designed to meet diverse payload performance needs through modul

Form factor	12U CubeSat
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Max S/C mass	32 kg
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Payload power (Light/Mid/Max)	33 / 29.5 / 25.5 W
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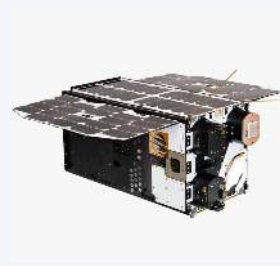
Payload mass	up to 18 kg
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Payload volume	8U
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Downlink (Mid/Max)	80 Mbps
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Pointing accuracy (Max, AKE)	0.04°
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price on request



NANOAVIONICS

M16P 16U CubeSat Nanosatellite

The M16P is a 16U CubeSat nanosatellite bus designed for a variety of missions, offering significant payload volume, modular subsystems, and deployable solar panels for enhanced po

Form factor	16U CubeSat
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Max S/C mass	36 kg
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Payload power (Light/Mid/Max)	25 / 21.5 / 17.5 W
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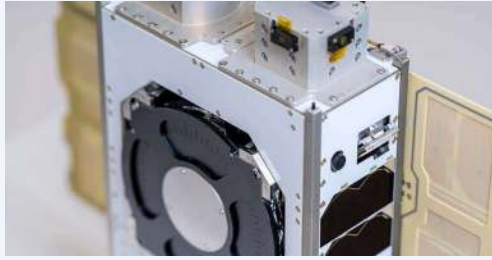
Payload mass	up to 22 kg
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Payload volume	12U
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Downlink (Mid/Max)	80 Mbps
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Pointing accuracy (Max, AKE)	0.04°
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price on request



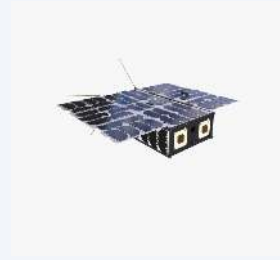
NANOAVIONICS

M6P Nanosatellite Bus

The M6P is a 6U CubeSat nanosatellite bus offered in Light, Mid, and Max configurations, providing ample payload mass and performance for single-satellite missions or constellation

Form factor	6U CubeSat
Max S/C mass	16 kg
Payload power (Light/Mid/Max)	17.5 / 14.5 / 12.5 W
Payload mass	up to 7.5 kg
Downlink (Mid/Max)	80 Mbps
Pointing accuracy (Max, AKE)	0.04°

price on request



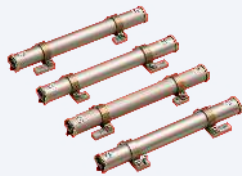
NANOAVIONICS

M8P 8U CubeSat Nanosatellite

The NanoAvionics M8P is an 8U CubeSat platform offered in Light, Mid, and Max configurations, providing increased payload volume and higher duty cycles compared to standard 6U Cube

Form factor	8U CubeSat
Max S/C mass	16 kg
Payload power (Light/Mid/Max)	29.5 / 26.5 / 24.5 W
Payload mass	up to 6.5 kg
Downlink (Mid/Max)	80 Mbps
Pointing accuracy (Max, AKE)	0.04°

price on request



NANOAVIONICS

Magnetorquers MTQ M6P & MTQ MP42

CubeSat and SmallSat magnetorquers (torque rods) for attitude control in nano- and microsatellite platforms, available in M6P (CubeSat) and MP42 (microsatellite) variants.

MTQ M6P – Mass	205 g ±1%
MTQ M6P – Dipole magnetic moment (X & Y axis, typ.)	0.30 Am ²
MTQ M6P – Dipole magnetic moment (Z axis, typ.)	0.34 Am ²
MTQ M6P – Supply voltage	up to 5 V
MTQ M6P – Power consumption (typ.)	~0.4 W
MTQ M6P – Connector	3× 1.5 mm PicoLock™ (one per axis)
MTQ M6P – Form factor	PC-104 compatible, CubeSat compatible

price on request



NANOAVIONICS

MP42 Microsatellite Bus

The MP42 is a mid-range microsatellite bus designed for various space applications, offering three performance configurations (Light, Mid, Max) to accommodate diverse mission objec

Separation ring class	15" ESPA-class
Payload maximum mass	70 kg
Payload footprint	625 x 460 x 370 mm(h)
Performance configurations	Light, Mid, Max
Platform maximum mass	150 kg

price on request



NANOAVIONICS

MP42D Small Satellite Bus

The MP42D is NanoAvionics' largest and heaviest microsatellite bus, designed for demanding space applications and capable of supporting payloads up to 100 kg.

Maximum payload footprint	730(L) x 730(W) x 600(H) mm
Separation ring	24" ESPA-class
Performance configurations	Light, Mid, Max

price on request



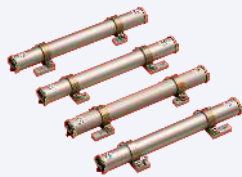
NANOAVIONICS

MP42H Microsatellite Bus

The MP42H is NanoAvionics' smallest and lightest microsatellite bus, ideal for complex communications missions, offering high mission capabilities and redundancy opportunities.

Separation ring	11" ESPA-class
Max S/C mass	75 kg
Payload mass	up to 25 kg
Payload volume	410 x 392 x 330 mm
Payload power (Light/Mid/Max)	100 / 98 / 94 W
Downlink (Mid/Max)	200 Mbps
Pointing accuracy (Max, AKE)	0.04°

price on request



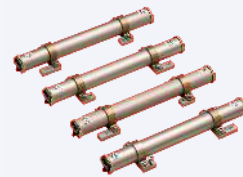
NANOAVIONICS

NanoAvionics Magnetorquer MTQ (MTQ M6P / MTQ MP42)

NanoAvionics' MTQ M6P and MTQ MP42 magnetorquers are actuators for nano- and microsatellites that generate a magnetic moment interacting with Earth's magnetic field to produce attitude control.

Starting price (MTQ M6P)	€ 1,330
Minimum order quantity	3 pieces

from €1 330



NANOAVIONICS

NanoAvionics Magnetorquers MTQ M6P and MTQ MP42

The NanoAvionics Magnetorquers MTQ M6P and MTQ MP42 are actuators designed for nano and microsatellites to generate a magnetic moment for in-orbit maneuvering.

Starting price (M6P)	€ 1,330
Minimum order quantity	3 pieces

from €1 330



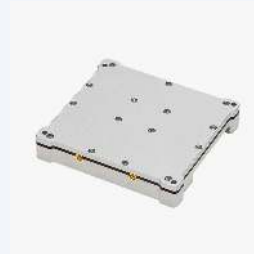
NANOAVIONICS

Reaction Wheels RW0 / 4RW0

Momentum reaction wheels for CubeSat attitude control — single unit (RW0) or 4-wheel cluster (4RW0).

Type	Reaction wheel actuator
Configurations	RW0 single / 4RW0 cluster
Function	ADCS / 3-axis attitude control
Flight heritage	60+ satellites launched, 300+ in production (per nanoavionics.com)

price on request



NANOAVIONICS

S-Band Transceiver SRS-3

Low-power full-duplex S-band TM/TC transceiver for CubeSat and SmallSat, 512 kbps TX, adjustable output up to 30 dBm, mass 190 g.

Type	Full-duplex S-band TM/TC transceiver
Transmit frequency	2200 to 2290 MHz
Receive frequency	2025 to 2110 MHz
Variable transmit symbol rate	Up to 512 kbps
Variable receive symbol rate	Up to 128 kbps
Transmit power	Adjustable 20 dBm to 30 dBm (with ALC)
Receive sensitivity	-107 dBm (<1% PER, 128 kBd, BT=0.5)

price on request



NANOAVIONICS

S-Band Transceiver SRS-4

High-speed full-duplex S-band transceiver for micro- and nano-satellites, up to 5 MBd TX, BPSK/QPSK/8PSK, CCSDS coding, 33 dBm output.

Type	Full-duplex S-band high-speed transceiver
Transmit frequency	2200 to 2290 MHz
Receive frequency	2025 to 2110 MHz
Variable transmit symbol rate	Up to 5 MBd
Transmit modulation	BPSK, QPSK, 8PSK
Receive modulation	BPSK, QPSK (up to 5 MBd)
Transmit power	Adjustable 20 dBm to 33 dBm (with power monitoring)

price on request



NANOAVIONICS

SatBus 3C2

The SatBus 3C2 is a highly integrated nano-satellite main bus unit for CubeSats, combining an on-board flight computer, attitude determination & control system (ADCS), and a re

Integrated Components	On-board flight computer (OBC), Attitude determination & control system (ADCS), Redundant
Standard Compliance	CubeSat standard
Minimum Order Quantity	3 pieces

price on request



NANOAVIONICS

SatCOM UHF Digital Radio Transceiver

UHF digital radio transceiver for CubeSat command-and-telemetry communications.

Type	UHF digital radio transceiver
Use case	Telemetry / telecommand
Flight heritage	60+ satellites launched, 300+ in production (per nanoavionics.com)

price on request



NANOAVIONICS

SmallSat EPS 2.0

Electrical Power System 2.0 for small-satellite and microsatellite platforms.

Type	SmallSat Electrical Power System
Class	Microsatellite / SmallSat
Flight heritage	60+ satellites launched, 300+ in production (per nanoavionics.com)

price on request



NANOAVIONICS

SmallSat GaAs Deployable Solar Panels

High-power triple-junction GaAs deployable solar panels for MP42 and MP42H microsatellite platforms, up to 225 W per wing in triple configuration.

Solar cell type	Triple-junction GaInP/GaInAs/Ge
Efficiency (typ.)	Up to 29.5%
Power generation capacity in LEO (AM0)	36.85 mW/cm ²
Operating temperature	-40 °C to +85 °C
Structure	Aluminium honeycomb and carbon fiber
MP42H – Single deployable (per wing)	45 W
MP42 – Single deployable (per wing)	75 W

price on request



NANOAVIONICS

Standard CubeSat and Microsatellite Buses

Kongsberg NanoAvionics offers a range of standard flight-proven CubeSat buses in 6U, 8U, 12U, and 16U sizes, and three standard microsatellite platforms, each available in Light, M

Form factor	12U CubeSat
Flight heritage	60+ satellites launched, 300+ in production (per nanoavionics.com)

price on request



NANOAVIONICS

Standard CubeSat Satellite Bus

Kongsberg NanoAvionics offers a range of standard flight-proven CubeSat satellite buses in 6U, 8U, 12U, and 16U sizes, each available in Light, Mid, and Max configurations.

Form factor	6U CubeSat
Power	Optional deployable solar panels
Propulsion	Optional EPSS green-propellant
Flight heritage	60+ satellites launched, 300+ in production (per nanoavionics.com)

price on request



NANOAVIONICS

Standard CubeSat Satellite Bus (6U, 8U, 12U, 16U)

A range of flight-proven CubeSat satellite buses available in 6U, 8U, 12U, and 16U sizes, each offered in Light, Mid, and Max configurations to suit various mission needs.

Form factor	16U CubeSat
Power	Deployable solar panels
Flight heritage	60+ satellites launched, 300+ in production (per nanoavionics.com)

price on request



NANOAVIONICS

Standard Small Satellite Buses (6U, 8U, 12U, 16U CubeSats and Microsatellites)

Kongsberg NanoAvionics offers a range of standard flight-proven CubeSats (6U, 8U, 12U, 16U) and microsatellite platforms, each available in Light, Mid, and Max configurations.

Class	Microsatellite bus (high-power)
Gross mass	Up to 200
Power	Deployable solar arrays
Flight heritage	60+ satellites launched, 300+ in production (per nanoavionics.com)

price on request



NANOAVIONICS

UHF COMM 4G0 Half Duplex Modem

1U half-duplex UHF ground modem for CubeSat/SmallSat operations, compatible with NanoAvionics COMM SAT2RF1-1D transceivers at 401–403 MHz or 430–440 MHz.

Form factor	1U modem
Operating mode	Half duplex
Frequency bands	401–403 MHz (commercial) or 430–440 MHz (amateur)
RX filter	Narrowband SAW filters for each band
Receive sensitivity (2400 bps GFSK2)	-122 dBm
Receive sensitivity (9600 bps GFSK2)	-119 dBm
Server interface	CAN bus

price on request

Contact NanoAvionics

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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<https://nanoavionics.com>

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