

GEOSCAN

Geoscan

Russia · founded 2011 · geoscan.ru

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WITH DATASHEETS

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Geoscan

Geoscan is a Russian group of technological companies that designs and manufactures unmanned aerial systems (UAS), small spacecraft (CubeSats), avionics, wireless communication systems, and sensors for UAS and CubeSats. They also develop and produce unmanned systems and indoor navigation systems for STEM education and robotics competitions. The company provides services including unmanned aerial photography (multispectral and thermal imaging), airborne laser scanning, geological exploration, and drone shows. Their products and services are supplied to over 50 countries worldwide. Geoscan's offerings are used for creating 3D models for urban planning, mining, and construction surveys; producing orthophotomaps for cadastral work; monitoring infrastructure like pipelines and power lines; creating vegetation index maps for precision agriculture; forest inventory; detecting thermal anomalies; magnetic and gamma-ray spectrometric geological exploration; video surveillance during emergencies; and robotics education. The company has a history of setting records, including the world's most extensive UAV project for the Moscow region, the largest unmanned exploration project in Siberia, and the largest drone shows. They have launched small spacecraft, including the first Russian 16U CubeSat and educational CubeSats, and developed Russia's first commercial satellite capable of deploying other spacecraft. In 2024, they produced over 19,000 UAVs. They also implemented drone control technology via the Russian Gonets satellite system and deployed 50 ground stations for receiving data from spacecraft.

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

Photogrammetric processing

Geoscan performs photogrammetric processing of acquired aerial data using Agisoft Metashape to generate various data products for further use.

Professional aerial photography

Geoscan provides professional aerial photography services using UAVs, followed by data analysis to produce high-resolution orthophotomaps, digital surface models, and 3D models.

UAV-based magnetic survey

Geoscan offers precise UAV-based magnetic surveys for archeology, geology, and structural exploration, providing high-resolution magnetic field data.

Product catalogue



GEOSCAN

Geoscan 16U

The Geoscan 16U is a CubeSat 16U satellite platform designed for Earth remote sensing and communication missions, providing power, control, attitude determination and control, and

Massa v sbore (bez PN)	20 kg
Gabarity v slozhennom sostoyanii (s podzhatymi elementami sistemy otdeleniya)	251,3kh251,3kh454 mm (251,3kh251,3kh512 mm s Tuna Can)
Napryazhenie sistemnoy shiny	10,5...12,6 V
Interfeys bortovoy shiny	2 kh CAN UART
Obem pamyati	13 kh FRAM 8 Mbit 1 kh MRAM 16 Mbit 3 kh NOR Flash 512 Mbit 2 kh SPI NOR 2 Gbit
Tip solnechnykh paneley	arsenid galliya
Pikovaya moschnost, vydelyaemaya na solnechnykh panelyakh	45 Vt

price on request



GEOSCAN

Geoscan 16U CubeSat Platform (InnoSat16)

The Geoscan 16U is a microsatellite platform in the CubeSat 16U form factor developed for Earth remote sensing and communications missions. InnoSat16, the first 16U CubeSat built b

Assembled mass (without payload)	20 kg
Maximum total mass with payload	32 kg
Dimensions folded	251.3×251.3×454 mm (251.3×251.3×512 mm with Tuna Can)
Power bus voltage	10.5–12.6 V
On-board bus interface	2×CAN, UART
Mass storage capacity	13×FRAM 8 Mbit, 1×MRAM 16 Mbit, 3×NOR Flash 512 Mbit, 2×SPI NOR 2 Gbit
Solar panel type	Gallium arsenide

price on request



GEOSCAN

Geoscan 1U CubeSat Platform

The Geoscan 1U CubeSat Platform is a nanosatellite platform built to the CubeSat 1U standard (10×10×10 cm, up to 2 kg), developed by Geoscan for educational space missions. Geoscan

Form factor	1U CubeSat
Dimensions	100 × 100 × 100 mm
Mass	Up to 2 kg
Low-speed radio frequency	435–438 MHz (UHF)
Low-speed data rate	2400, 9600, 57600 bit/s
Orientation system	Magnetometers, solar sensors
Stabilization	Magnetic coils (B-Dot mode)

price on request



GEOSCAN

Geoscan 3U

Geoscan 3U is a 3U CubeSat small spacecraft platform developed by Geoscan for educational and technology-demonstration missions, carrying up to four payloads for Earth remote sensi

Assembled weight (without a payload), kg	Modification 1 (truncated configuration): 1,8; Modification 2 (full set): 2,3
Maximum weight of a payload, kg	Modification 1: 4.2 kg; Modification 2: 3.7 kg
Maximum weight including a payload, kg	6 kg
Dimensions folded (with separation system locked), mm	100kh100kh340,5 (100x100x376,5 with Tuna Can)
Available volume for a payload, mm	95kh95kh180 (~2U)
Radiation protection	aluminum sheet 1.2 mm
Available supply for a payload	stabilized 3,3...12 V / 2 A, unstabilized 7...8,4 V / 2A

price on request

[datasheet](#)



GEOSCAN

Geoscan Educational CubeSat Kit

The Geoscan Educational CubeSat Kit is a complete nanosatellite development package designed for school and university students under the Space-π educational initiative supported b

Standard	CubeSat
Target users	School and university students
Program	Space-π (Russia) – educational satellite constellation initiative
Applications	Satellite design and assembly training, amateur radio experiments, LEO flight tests, space
Documentation	Passport, manual, user software libraries
Orbit	Low Earth Orbit (LEO)

price on request

Contact Geoscan

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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