

NEWSPACE MARKET · COMPANY PROFILE



Orbital Systems

Russia · founded 2009 · orbsystems.ru

11

PRODUCTS

newspacemarket.com/companies/orbital-systems/

as of 27 August 2026



Orbital Systems

Orbital Systems is an innovative Russian company in the NewSpace industry segment, founded in 2009 and headquartered in Moscow. The company provides full lifecycle development and production support for small satellites in the CubeSat form factor — 3U, 6U, and 12U/16U platforms — as well as standardized deployment systems (dispensers) and ground control stations for CubeSat missions. The company's satellite platforms and deployment systems have undergone a complete cycle of ground experimental testing and carry years of successful flight qualification in orbit. The 3U CubeSat platform has been operational since 2019; the 6U platform since 2020. CubeSat deployment systems have flown aboard the Soyuz-2 launch vehicle with the Fregat upper stage since 2020. Orbital Systems has deployed and commissioned seven ground stations across Russia (St. Petersburg, Kazan, Ryazan, Samara) and Kazakhstan (Astana, Karaganda), providing integrated command, telemetry, and mission data reception capabilities. The company also delivers technical consulting, laboratory setup, and space engineering training programs to universities and research institutions throughout Russia and the CIS.

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



ORBITAL SYSTEMS

12U Cubesat Platform

The largest platform in our 12U CubeSat format line, providing a maximum payload volume of up to 9U.

Payload Volume	9U
Peak Power Consumption	100 W
Maximum Mass	16 kg
Interfaces	I2C, UART, CAN, SPI, 100BASE-TX Ethernet port, RS422
Power Channels	3.3 V, 5 V, 3-18 D VBAT
Platform Size	322x215x215 mm
Platform Mass	6.5 kg

price on request



ORBITAL SYSTEMS

12U/16U CubeSat Platform

Largest CubeSat platform with 9U payload volume, integrated propulsion, and up to 5-year service life.

Pu volume	9U
Peak consumption (PU)	100 W
Maximum mass (PU)	16 kg
Interfaces	I2C, UART, CAN, SPI, 100BASE-TX Ethernet, RS422
Power channels	3.3 V, 5 V, 3-18 V VBAT
Dimensions	322x215x215 mm
Platform mass	6.5 kg

price on request



ORBITAL SYSTEMS

3U Cubesat Platform

The 3U format platform offers an optimal combination of low platform mass and the necessary volume for accommodating the target payload.

Payload Volume	1.5U
Peak Power Consumption	50 W
Maximum Payload Mass	1 kg
Interfaces	I2C, UART, CAN, SPI
Power Channels	3.3 V, 5 V, VBAT
Platform Size	340x100x100 mm
Platform Mass	1.5 kg

price on request



ORBITAL SYSTEMS

3U platform

The 3U platform is a CubeSat platform designed to offer a balance of low mass and sufficient volume for various mission payloads, featuring a precision attitude control system.

Pu volume	1.5U
Peak consumption (PU)	50 W
Maximum mass (PU)	1 kg
Interfaces	I2C, UART, CAN, SPI
Power channels	3.3 V, 5 V, VBAT
Dimensions	340x100x100 mm
Platform mass	1.5 kg

price on request



ORBITAL SYSTEMS

6U CubeSat Platform

6U CubeSat platform with 4U payload volume, Ethernet and RS422 interfaces, flight heritage since 2020.

Pu volume	4U
Peak consumption (PU)	75 W
Maximum mass (PU)	7.5 kg
Interfaces	I2C, UART, CAN, SPI, 100BASE-TX Ethernet, RS422
Power channels	3.3 V, 5 V, VBAT
Dimensions	340×200×100 mm
Platform mass	4.5 kg

price on request



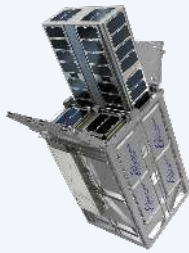
ORBITAL SYSTEMS

6U Cubesat Platform

The 6U platform is becoming a universal format for CubeSat class satellites, capable of meeting the requirements of several payloads at once.

Payload Volume	4U
Peak Power Consumption	75 W
Maximum Mass	7.5 kg
Interfaces	I2C, UART, CAN, SPI, 100BASE-TX Ethernet port, RS422
Power Channels	3.3 V, 5 V, VBAT
Platform Size	340x200x100 mm
Platform Mass	4.5 kg

price on request



ORBITAL SYSTEMS

CubeSat Deployment System (TPK)

CubeSat transport-launch containers for 1U–16U form factors with flight heritage on Soyuz-2/Fregat since 2020.

Supported form factors	1U, 1.5U, 2U, 3U, 6U, 8U, 12U, 16U
Access windows	Both sides
Interface	Launch vehicle command-and-telemetry unit
Flight heritage	Soyuz-2 + Fregat, since 2020
Redundancy	Dual mechanical and electronic systems

price on request



ORBITAL SYSTEMS

Engineering

Orbital Systems provides technical consulting services for the creation of laboratories, ground radio stations, and clean rooms in scientific and educational centers and organizati

price on request



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Ground Station Complex

Turnkey ground station complex for CubeSat command, telemetry, and mission data reception, deployed at 7 university sites.

Deployed stations	7
Locations	St. Petersburg, Kazan, Ryazan, Samara (×2), Astana (KZ), Karaganda (KZ)
Capability	Command uplink, telemetry and mission data downlink
Services	Installation, commissioning, operator training

price on request

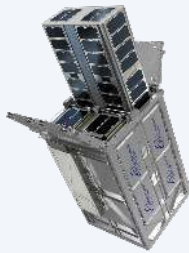


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Ground Stations

Ground stations include a complex for receiving, processing and storing data, ensuring the transmission of commands to spacecraft and the reception of target information from space

price on request



ORBITAL SYSTEMS

Транспортно-пусковые контейнеры

We offer transport and launch containers (TPK) for launching CubeSat format spacecraft of 1U, 1.5U, 2U, 3U, 6U, 8U, 12U, 16U dimensions.

price on request

Contact Orbital Systems

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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