

NEWSPACE MARKET · COMPANY PROFILE



NPK Barl

founded 2013 · okb5.com

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PRODUCTS

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SERVICES

newspacemarket.com/companies/npk-barl-jsc/

as of 20 August 2026

NPK Barl

NPK Barl designs ultra-small spacecraft and space instrumentation. They develop and manufacture various types of onboard satellite equipment, including control units, orientation and stabilization devices, telemetry, and power management controllers. Their product lines include ultra-small spacecraft, such as the CubeSat 6U format nanosatellite "Norby," and modular pico-satellite platforms for educational and scientific research. They also offer a cloud-based service, sCloud, to provide guaranteed communication session time with satellites, relieving operators from needing their own Ground Control Station. The company's customers include agencies like Roscosmos, operators such as Gonets, and integrators like Lavochkin Research and Production Association, Information satellite systems named after Academician M. F. Reshetnev, and S. P. Korolev Rocket and Space Corporation Energia. They also work with universities like Novosibirsk State University and Qatar University. The company, through OKB Fifth Generation, was founded in November 2013 and is based at the Technopark in Novosibirsk Akademgorodok, with an additional presence in Moscow. They have a staff of over 30 people. Their flight heritage includes the launch of the "Norby-1" spacecraft in September 2020 and "Norby-2" in 2023, as well as the QUbeSat1 with Qatar University. They have delivered 8 packages of 1U and 3U spacecraft to Altair Education Centre. They hold a license from Roscosmos and their laboratory is accredited by Roscosmos for ground testing. Notable programs include the Gonets.MKA multi-satellite constellation for the space Internet of Things, and involvement in Spektr-UV and Luna-26 projects.

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

Ground Control Station services (sCloud)

sCloud provides ground control station services, relieving satellite developers/operators from the need to build and operate their own stations.

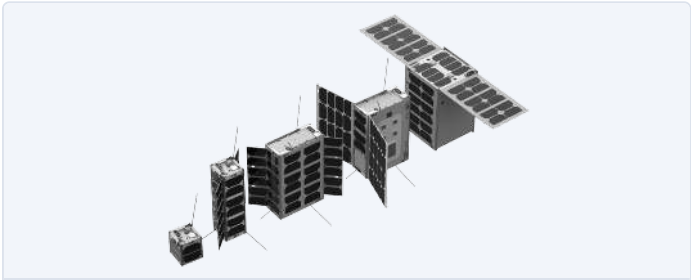
Space education program for universities

NPK Barl offers an educational program for universities focused on the launch of small space vehicles and specialized radio modules for M2M communication.

Space instrumentation engineering (full cycle)

NPK Barl offers a full cycle of preparation for various types of onboard satellite equipment, from development to launch.

Product catalogue



NPK BARL

Cleon I

Cleon I is a modular, scalable smallsat platform from OKB Fifth Generation, configurable from 1U to 16U depending on mission payload and power needs.

Configuration scalability	1U to 16U
Flight heritage	Over 4 years
Telemetry tracking and command	Meets all industry standards
Ground software	Grid – data download/visualization, satellite session booking, control commands
Integration and launch support	Adapted to launch operator and deployer standards; laboratory testing and payload integrat
Weight, w/o payload (w/ payload) [1U]	0,5 kg (1,5 kg)
Weight, w/o payload (w/ payload) [3U]	3 kg (5,5 kg)

price on request



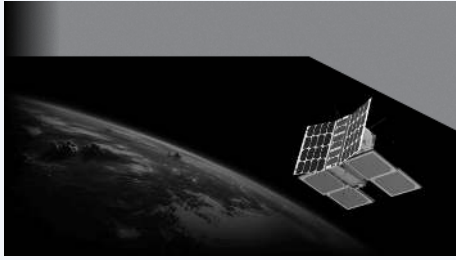
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Grid

Grid is a cloud service that facilitates data exchange with satellites via a global network of ground stations, offering seamless on-demand connectivity.

Supported modulations	LoRa, GFSK, GMSK (extensible via SDR)
Ground stations deployed	4 (initial deployment)
Satellites tracked	16
Pricing	Fixed per-minute rate
Features	API integration, session booking, telemetry charts, cloud data storage
Coverage	Global (multiple continents)

price on request



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M2M Space System

The M2M Space System is a satellite communication service designed for collecting, storing, and transmitting data from connected devices in areas without traditional communication

Antenna type	Wave-channel (Yagi-type)
Antenna gain	5 dBm
Frequency	430–435 MHz
Modulations	FSK, LoRa
Interfaces	RS485, UART, I2C, SPI, WiFi
Constellation plan	2 sats (2020), 4 by 2025, 44+ by 2027

price on request

Contact NPK Barl

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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