

NEWSPACE MARKET · COMPANY PROFILE



SpaceForest

Poland · founded 2004 · spaceforest.pl

4

PRODUCTS

4

SERVICES

1

WITH DATASHEETS

newspacemarket.com/companies/spaceforest/

as of 20 August 2026

SpaceForest

SpaceForest designs and manufactures advanced technologies, specializing in synthetic aperture radars (SAR Radars), advanced electronics, microwave filters, and rocket technologies. Their product lines include the HUSSAR X-band Radar, PERUN suborbital rocket, VIRA supersonic rocket, SF-1000 Space Rocket Engine, FTS (Filter Tuning Solutions), RASEL (Autonomous Tracking and Communication System), and advanced electronics and composite manufacturing services. They offer payload qualification and full support for suborbital flight missions using their PERUN rocket. Their services cover design, optimization, and production of devices and software, including space-related applications. They also develop proprietary space and supersonic rockets with an in-house composites facility. Customers include various industries such as defense, aviation, telecommunications, and space technology. They have collaborated with the European Space Agency (ESA) on projects such as the Master Local Oscillator (MLO) and Ultra-Low Phase Noise Frequency Generator ("CLOG"), and provided a testing environment for the onboard data collecting system of ESA's JUICE mission. SpaceForest is headquartered in Gdynia, Poland, where they also manufacture, including a clean-room for space production and a workshop for rocket construction. The company was founded in 2004 as Telemobile Electronics and changed its name to SpaceForest. They are certified under ISO 9001 and ISO 14001. Notable programs include the PERUN suborbital rocket, which has achieved a successful test flight reaching 1 Ma velocity and 9750 m altitude, and the SIR project to build a guided, fully recoverable suborbital launch vehicle. They have achieved TRL 7 for their MLO and CLOG projects with ESA. They have over 20 years of expertise.

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

Advanced Design and Production Services for Composites

SpaceForest specializes in the design and production of high-strength, lightweight composite materials for various industries, including aerospace and automotive.

Design, Optimization and Production of Devices and Software

SpaceForest offers comprehensive services covering the design, optimization, and production of various devices and software, especially those for space applications.

Payload Qualification and R&D Team Support

SpaceForest provides payload qualification and comprehensive support from their R&D team for customers testing technology in suborbital flight conditions.

Turnkey Electronic Manufacturing Services

SpaceForest provides complete electronic manufacturing services, from initial concept design to full-scale production, customized for industry demands.

Product catalogue



SPACEFOREST

DRO – Direct Resonance Oscillator

The Direct Resonance Oscillator (DRO) is a microwave oscillator designed to generate stable high-frequency signals with excellent frequency stability, high output signal power stab

Frequency range	2.8 GHz – 18 GHz (other ranges available upon request)
Initial frequency accuracy	±10 ppm (typical value; lower values possible after individual analysis)
Phase noise @ 10 kHz offset	-90 dBc/Hz @ 15.3 GHz (guaranteed value)
Phase noise @ 100 kHz offset	-110 dBc/Hz @ 15.3 GHz (guaranteed value)
Supply voltage	8.7 V – 15 V DC
Current consumption	max. 80 mA
Operating temperature	-15°C to +45°C (extendable to -40°C to +80°C)

price on request



SPACEFOREST

Filter Tuning Software (FTS)

Filter Tuning Software (FTS) by SpaceForest is an AI-powered solution for optimizing microwave filters and multiplexers, designed to reduce training time, lower labor costs, and el

price on request [datasheet](#)



SPACEFOREST

Perun Small Orbital Launch Vehicle

SpaceForest's Perun — Poland's planned first orbital launch vehicle, using hybrid propulsion to target 50–100 kg to LEO from European spaceports.

Vehicle Type	Small orbital launch vehicle (hybrid propulsion)
Payload to LEO	50–100 kg (target)
Heritage	SRT-2 sounding rocket + Bursztyn hybrid engine (>100 km achieved)
Propulsion	Hybrid (liquid oxidizer / solid fuel grain)
Launch Site	European spaceport (SaxaVord, Andøya candidates)
Company	SpaceForest, Gdynia, Poland (founded 2013)

price on request



SPACEFOREST

SRT-2 Sounding Rocket

SpaceForest's SRT-2 (Suborbital Rapid Transport 2) — Poland's most advanced sounding rocket, using hybrid propulsion to reach 100+ km altitude.

Propulsion Type	Hybrid (N2O oxidizer / HTPB solid fuel) – Bursztyn engine
Apogee	>100 km
Microgravity	~3–4 minutes
Payload	Science and technology demonstration experiments
Transport	Road-transportable, simple rail launcher (no major infrastructure)
Company	SpaceForest, Gdynia, Poland (founded 2013)

price on request

Contact SpaceForest

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.

<https://newspacemarket.com/companies/spaceforest/>

<https://spaceforest.pl>