

NEWSPACE MARKET · COMPANY PROFILE

27G™-Technology

# 27G Technology

Hungary · 27g.space

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as of 28 August 2026



# 27G Technology

27G Technology is a research and development company headquartered in Gödöllő, Hungary, providing state-of-the-art, cost-effective, and easy-to-implement solutions for space and special ground applications. Founded around 2019 following the SMOG-P satellite mission at Budapest University of Technology and Economics, 27G has achieved a 100% operational success rate across all space missions. The company's flagship product, RadNano, is the world's smallest active electronic dosimeter, engineered to measure ionizing radiation (gamma, X-ray, high-energy protons) in ultra-compact form. Space-grade variants (TRL-9) have flown on missions including SMOG-1, MRC-100, the RANDAM experiment on the ISS via Axiom-4 (June–July 2025), and a Transporter-15 rideshare (December 2025). 27G was shortlisted in ESA's top 50 startups in 2020. Beyond dosimetry, 27G develops advanced power-line EMC filters for shielded environments and lab infrastructure. All products are designed to ESA/ECSS, NASA, and MIL reliability standards, emphasizing minimal use of materials and power. Partners include ESA, ISRO, AGH University, and Khalifa University.

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

|                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Custom solutions</b></p> <p>27G offers custom solutions, adapting its products to specific customer needs and manufacturing fully personalized items based on client orders, leveraging its experience and manufacturing capabilities</p> | <p><b>Research &amp; Development</b></p> <p>27G conducts continuous R&amp;D, developing products, catering to client needs, and working on projects with globally recognized companies and institutions, offering expertise in various engineering domains</p> |
| <p><b>Technical Consultation</b></p> <p>27G offers consultation services, drawing on its wide-ranging expertise in electrical, mechanical, software, and system designs, simulations, analyses, and testing.</p>                                | <p><b>Testing &amp; qualification</b></p> <p>27G performs custom testing, screening, and certification upon request, adhering to widely accepted standards like ESA (ECSS), NASA, and MIL during design, development, and manufacturing.</p>                   |

# Product catalogue



27G TECHNOLOGY

27G PLF20A EMC Power Line Filter

Advanced power-line EMC filter for shielded rooms, EMC labs, and server rooms — stops electrical disturbances and information leakage.

|                |                                                          |
|----------------|----------------------------------------------------------|
| Dimensions     | 145 × 120.5 × 114.5 mm                                   |
| Configurations | Three-phase / dual single-phase / 50 A single-phase / DC |
| Mounting       | Wall mount                                               |
| Protection     | Lightning strike and voltage surge                       |
| Insertion loss | Low                                                      |
| Attenuation    | Exceptional (unwanted signal suppression)                |
| Testing        | Individual electrical testing with unique test report    |

price on request   [datasheet](#)



27G TECHNOLOGY

27G RadNano Radiation Sensor

A tiny radiation sensor device designed for space applications, featuring an internal LDO regulator and compliance with space-grade standards. Extensive TRL-9 heritage.

|                                                |                             |
|------------------------------------------------|-----------------------------|
| Standby current (+3.3V supply)                 | < 5 µA                      |
| Additional current (+5V supply with regulator) | about 1 µA                  |
| Outgassing – tml (Typical)                     | 0.16 %                      |
| Outgassing – tml (Max)                         | 1.0 %                       |
| Outgassing – cvcm (Typical)                    | 0.03 %                      |
| Outgassing – cvcm (Max)                        | 0.1 %                       |
| Active sensor volume                           | two times 300 × 50 × 200 µm |

price on request



27G TECHNOLOGY

27G RadNano-EB Evaluation Board

A complete evaluation setup containing a RadNano-EM model with additional circuitry and connectors, also serving as an add-on board for development projects.

|               |            |
|---------------|------------|
| UART protocol | 9600 8-N-1 |
| I2C protocol  | Standard   |

price on request



27G TECHNOLOGY

RadNano Dosimeter

A tiny radiation sensor with low power consumption and extensive TRL-9 heritage.

|                 |                                      |
|-----------------|--------------------------------------|
| Dimensions      | 12.7 × 12.7 × 2.5 mm                 |
| Dose range      | 1 mGy to 100 Gy (0.1 rad to 10 krad) |
| Power (standby) | < 10 µW                              |
| Power (active)  | < 10 mW                              |
| Sensors         | Dual semiconductor sensors           |
| Power supply    | Single voltage                       |
| Protection      | IP67                                 |

flight proven · TRL 9   price on request

## Contact 27G Technology

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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