

NEWSPACE MARKET · COMPANY PROFILE



Greenerwave

France · founded 2015 · greenerwave.com

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as of 20 August 2026



Greenerwave

Greenerwave was founded in 2015 as a spin-off from the Langevin Institute (CNRS/ESPCI-PSL) by Geoffroy Lerosey, a CNRS researcher, and Mathias Fink, a professor at ESPCI Paris. The company emerged from pioneering academic research in wave physics and electromagnetic control, translating breakthrough science into commercial products for wireless communications and satellite connectivity. The company's core innovation is its proprietary Reconfigurable Intelligent Surface (RIS) technology combined with physics-inspired algorithms that enable precise, real-time control of electromagnetic wave propagation. Unlike conventional electronically steerable antennas that rely heavily on active semiconductor components, Greenerwave's approach shifts complexity from hardware to software, resulting in antennas with dramatically fewer semiconductors — approximately 5× less than competing solutions — leading to lower cost, higher reliability, and reduced energy consumption. Greenerwave's primary commercial focus is on satellite communications (SATCOM) user terminals designed to maintain high-speed connectivity with both geostationary (GEO) and low Earth orbit (LEO) satellites, including while on the move. The terminals support multi-orbit operations and can adapt their configuration in real time to meet diverse connectivity needs across defense, energy, government, mobility, and land sectors. The company has established strategic partnerships with major industry players including Safran, Intelsat, and the French Defence Procurement Agency (DGA), and has received backing from France 2030, Bpifrance, BNP Paribas, and the European Innovation Council (EIC). In 2024, Greenerwave raised €15 million in funding to accelerate commercialization. The company has offices in Paris, Toulouse, and

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SERVICES

Services

Collaborative Partnerships for NTN Solutions

Greenerwave offers collaborative partnerships to develop cutting-edge Non-Terrestrial Network (NTN) solutions tailored to specific customer needs.

RIS Design and Optimization

Greenerwave controls the entire chain of Reconfigurable Intelligent Surface (RIS) design and optimization, enabling precise and adaptable manipulation of electromagnetic waves.

Tailored Solutions Development

Greenerwave develops adaptable and future-ready solutions tailored to the unique challenges of each sector by combining performance, energy efficiency, and cost-effectiveness.

Product catalogue

GREENERWAVE

Ka user terminal

A high-performance, low-cost flat panel antenna terminal operating at Ka-band, currently under development to enable satellite-based broadband communications.

Status	In development
Funding	European Union's HORIZON EIC 2023 Accelerator programme under grant agreement No 190156996

price on request



GREENERWAVE

Ku GEO

The Ku GEO user terminal is an electronically steerable, energy-efficient, and SWaP-optimized device for next-generation satellite communications, specifically tailored for Geostat

Dimensions	~ 54 cm x 63 cm x 11 cm
Weight	~ 14 kg
Power Consumption	< 80 W Typical (Including BUC)
Operating Temperature	-40°C to +55°C
Storage Temperature	-40°C to +85°C
Ingress Protection	IP65
Rx Frequency	10.7 GHz – 12.75 GHz

price on request



GREENERWAVE

Ku GEO User Terminal (Ku GEO 9dB/K)

Electronically steerable flat-panel antenna terminal for GEO satellite communications — no mechanical gimbals, SWaP-optimized, IP65 rated, up to 40 dBW EIRP.

Dimensions	~54 x 63 x 11 cm
Weight	~14 kg
Power consumption	<80 W typical (incl. BUC)
Operating temperature	-40°C to +55°C
Storage temperature	-40°C to +85°C
Ingress protection	IP65
Rx frequency	10.7-12.75 GHz

price on request



GREENERWAVE

Ku GEO/LEO 9 dB/K

Greenerwave's Ku GEO/LEO 9 dB/K is a state-of-the-art, energy-efficient, and electronically steerable antenna user terminal for high-performance connectivity with both Geostationar

Dimensions	~ 54 cm x 63 cm x 11 cm
Weight	~ 14 kg
Operating Power Consumption	< 90 W Typical (Including SSPA and GEO Modem)
Operating Temperature	-40°C to +55°C
Storage Temperature	-40°C to +85°C
Protection Ingress	IP65
Rx Frequency	10.7 GHz – 12.75 GHz

price on request



GREENERWAVE

Ku LEO User Terminal

Greenerwave's Ku LEO User Terminal is a lightweight, energy-efficient, electronically steerable antenna designed for modern satellite communications with LEO satellites.

price on request



GREENERWAVE

RIS Panels FR1, FR2, FR3

Reconfigurable Intelligent Surface (RIS) panels for 5G FR1, FR2, and FR3 frequency bands, enabling passive wave steering for telecom infrastructure and 6G research.

price on request

Contact Greenerwave

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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