



WUPATEC

x

6GSNS

HORIZON-JU-SNS-2026-FEM

Stream B-02



Who we are



Spin-off

2016



Markets:



Telecoms: private/public 5G/6G



Defense: radar modules, radios, UAV



Space / New Space / NTN

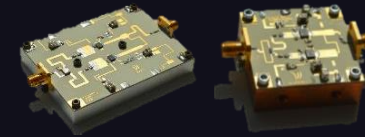


11 people



EXPERTISE:

RF

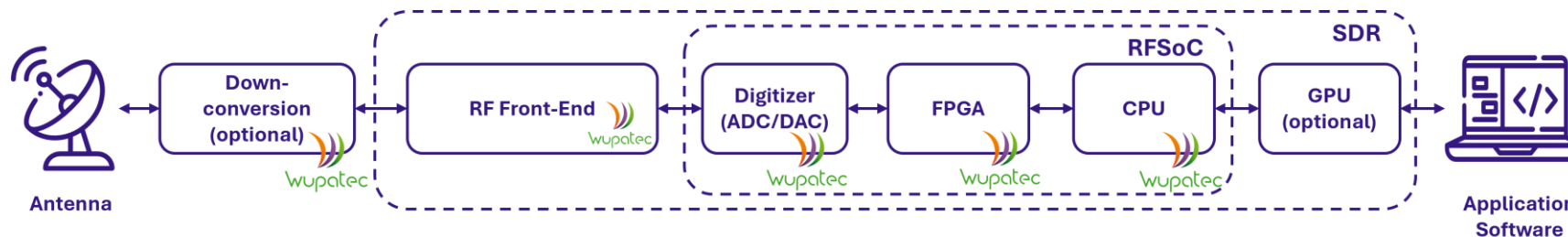


Doherty wideband PA design
MMIC/PAM
From sub 6GHz to mmWave

DIGITAL



FPGA / RFSoc – Zynq Ultrascale+
DPD / CFR IP development
5 patents in envelope tracking



A full FR3 front-end

The **WFC725A** is a **high-performance 6G FR3 RFFE** module, specifically engineered as a **frequency extension for Vector Signal Transceivers (VSTs)**.

Coverage: from 10 MHz to 25.8 GHz

Instantaneous bandwidth: 1.2 GHz.

This board enables seamless up- and down-conversion, making it an **essential tool** for **wideband signal generation and analysis in next-generation wireless infrastructure**.

<https://wupatec.com/vector-signal-transceivers/fr3-extension-board/>



1st PRIZE
INNOVATION



MWC 2026

RFSOC FR3 Test solution

The RFSOC FR3 Test solution is a complete test environment that allows to evaluate RF performance in the 7–24 GHz range.

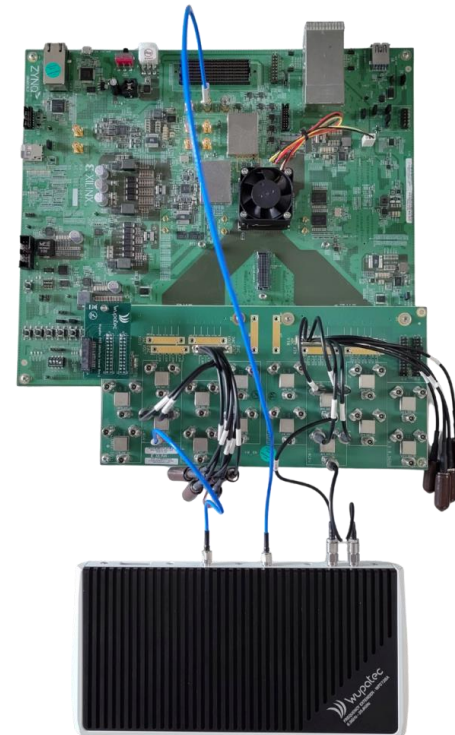
Today, the solution combines these complementary elements:

AMD RFSoc platform
(ZCU670) + Wupatec
firmware

- Real-time DPD (for amplifier charact.)
- Signal generation
- Sequencing
- Setup control

Wupatec FR3 Extension
Board

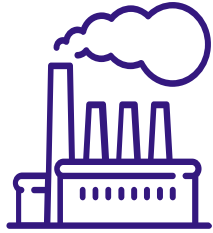
Up-conversion/down-
conversion and all RF
interfaces of the
RFSoc to reach the
FR3 band.



PC
interface

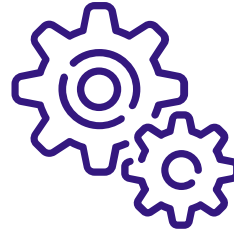


What we are looking for:



Foundry Partners

Combined with advanced packaging providers to combine the digital, analog, and RF dice into a single, compact module.



AI/ML Experts

DFE capable of managing 200–400 MHz channels, optimizing Channel State Information (CSI), and AI/ML for low-power management



Antenna Array & Beamforming Designers

For implementation of massive MIMO capable of compensating for the severe path loss.



Co-existence & Sensing (ICAS / JCAS)

Motivation: mandatory implementation of Sub-Band Full Duplex (SBFD) and ISAC
Need: Radar/Sensing Algorithms Experts



RTOs

E.g. : **research centers** to handle the low-TRL modeling, thermal analysis, and characterization



Industrial End-Users

To prove "5G cell site reuse" and validate the cellular/Fixed Wireless Access (FWA) scenarios proposed

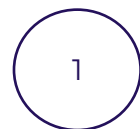


FRANCE

6G

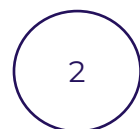
France 6G

The **France 6G Mission** aims to structure, drive and strengthen the national research, innovation and standardisation ecosystem around future sixth-generation telecommunications networks.



Wupatec's contribution

As a PME, Wupatec serves a **providers of critical technology building blocks** and driving innovation in areas such as RF and resilient communications. Wupatec, together with the PMEs involved, **serve as a bridge between research and industrial deployment**, while also contributing to technological sovereignty and European standardization efforts.



Funding

France 6G is supported by the €65M 'Réseaux du Futur' research program under France 2030, within a broader €3B national investment in future networks.



Wupatec's event participation with France 6G in 2026

- 1. Conference:** Mobile World Congress, March 2026 Barcelona
- 2. Plenary meeting March 2026, Paris**
Objective: to launch 6 expert working groups tasked with developing the technical, environmental, and strategic roadmap for the future of 6G networks in France and Europe.
- 3. Conference:** EuCNC 6G Summit, June 2026 Malaga