



POWERPACK

Novel 3D heterogeneous integration for future miniaturized power RF Transceiver front ends

SELECTED PROJECTS EUROPEAN DEFENCE FUND (EDF) 2021

CALL TITLE:	Open call addressing disruptive technologies for defence	
TOPIC TITLE:	Research contributing to disruptive technologies for defence	
DURATION OF THE PROJECT:	36 months	
TYPE(S) OF ACTIVITIES:	Generating knowledge; Studies; Design	
ESTIMATED TOTAL COST:	€ 3,494,531.61	
MAXIMUM EU CONTRIBUTION:	€ 3,494,531.61	

SHORT DESCRIPTION OF THE PROJECT:

POWERPACK will develop disruptive technologies for miniaturised Radio Frequency Identity (RF) chips for high frequency and high-power operation.

The project "Novel 3D heterogeneous integration for future miniaturized power RF Transceiver front ends" (POWERPACK) will develop disruptive technologies for miniaturised RF chips for high frequency and high-power operation, and will focus on miniaturisation and 3D integration. The outcome will be a reduction in transmission losses, and will result in two demonstrators. These demonstrators will operate in the X-Band and in the Ka-Band. The devices will allow for integration in platforms where the components will need to ever be smaller and lighter.





SELECTED PROJECTS EUROPEAN DEFENCE FUND (EDF) 2021

MEMBERS OF THE CONSORTIUM AND COUNTRY OF ESTABLISHMENT:



NAME OF THE ENTITY	COUNTRY
THALES (Coordinator)	France
ARISTOTELIO PANEPISTIMIO THESSALONIKIS	Greece
BERLINER NANOTEST UND DESIGN GMBH	Germany
CIDETE INGENIEROS SOCIEDAD LIMITADA	Spain
Circuits Integrated Hellas IKE	Greece
FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.	Germany
IDRYMA TECHNOLOGIAS KAI EREVNAS	Greece
INSTITUTUL NATIONAL DE CERCETAREDEZVOLTARE PENTRU MICROTEHNOLOGIE	Romania
MICROWAVE CHARACTERIZATION CENTER	France
TAIPRO ENGINEERING SA	Belgium