

**PROJECT / Innovative GaAs MMICs and
Advanced LTCC packaging technologies
for multicomponents Ka Band
subsystems**

GALACTIC

Main Objective:

The objective of the GALACTIC project is to lay the foundations to the low-cost Ka subsystems. The key innovative technologies are highly integrated Gallium Arsenide (GaAs) monolithic microwave integrated circuits (MMICs) and low temperature co-fired ceramics (LTCC), integration and packaging. Those technologies are required for the design, fabrication and validation of a low cost, multi-component high power subsystem adequate for mass production. The integration will be validated on a Ka-band up-converter transmitter, which is the key building block of various future products for next generation broadband communication networks.

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Groups: [Antennas and Propagation – Lx](#)

Partners: EADS Deutschland - Germany, Gilat Satellite Networks Ltd - Israel, Thales - France, United Monolithic Semiconductors - Germany

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