

Aerospace & Defence

APPLICATION OVERVIEW

The aerospace and defence (A&D) market encompasses a wide range of mission-critical applications spanning land, sea and air, involving advanced systems for surveillance, intelligence, communications and control.

From manpack to autonomous vehicles to airborne platforms, these systems demand rugged RF front ends that can operate in extreme environments without compromise. Weaponry and electronic warfare.

WHY CML?

With decades of heritage supporting the aerospace and defence RF community, CML offer field-proven and robust solutions. Our understanding of performance requirements, qualification, screening, and long-lifecycle demands makes us a trusted partner for this market sector. Being based in the UK, CML is playing a key role in supporting EU wide efforts to establish a robust and resilient defense supply chain.

“Our customers come to us because of our technical heritage and the quality of our devices.” – CML Sales Lead. CML understands the technical and mission critical requirements where performance, reliability and long-term availability are not optional.

CML'S CONTRIBUTION

CML Micro supplies high-performance GaAs and GaN RF components as well as mixed-signal RFICs suitable for tactical and MANET radios, AESA radars EW systems, UAVs and space-borne applications.

Our products support frequencies from near-DC through to C-band and beyond, with a focus on linearity, gain, and rugged reliability.

CUSTOMER DRIVERS

- **SWaP-C optimisation** (Size, Weight, Power, and Cost)
- **Wideband or multiband operation**
- **Rugged components with long lifecycle**
- **High linearity and thermal stability**

PRODUCTS OF INTEREST

- **CMX994x** (direct conversion receiver)
- **CMX971** (I/Q modulator)
- **CMX940** (Frac-N synth)
- **CMX90A007 / CMX90A009** (PAs)
- **MGA-444940-02 / MGA-495940-02** (PAs)
- **MMA-005022-M4** (30kHz – 50GHz wideband driver)

USE CASES

- **UAV / Drones**
- **Radar**
- **Mobile Ad-hoc Network (MANET)**
- **Tactical radios**
- **EW / ECM**
- **Vehicular and soldier-borne radio platforms**
- **Missiles**



GET IN TOUCH

Looking to power the next generation radio? Visit **www.cml.events** or speak to our RF specialists.

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