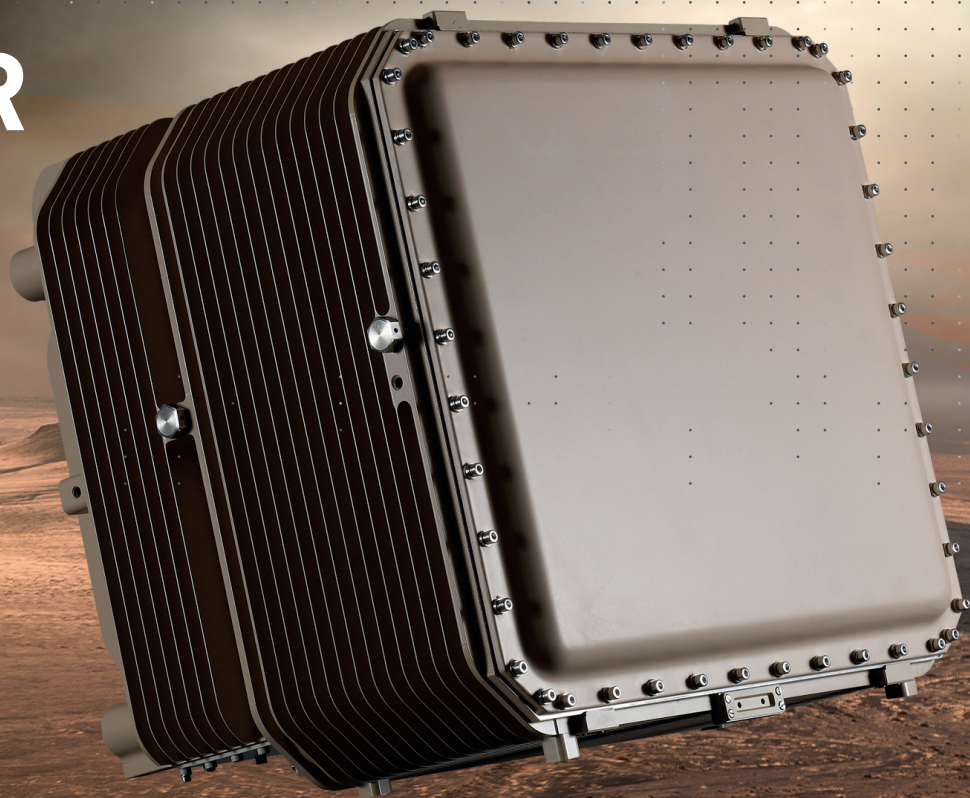


# TMMR



Leonardo Tactical Multi-Mission Radar (TMMR) is an extremely compact Software Defined Radar capable to support air defence, battlefield operations, border surveillance and infrastructure protection providing classification and tracking of airborne and surface targets. Designed to detect very small high manoeuvring targets TMMR is the solution for CUAS and CRAM applications.

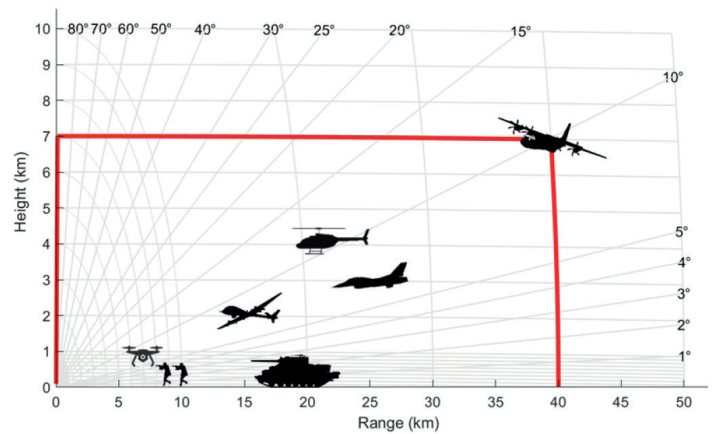
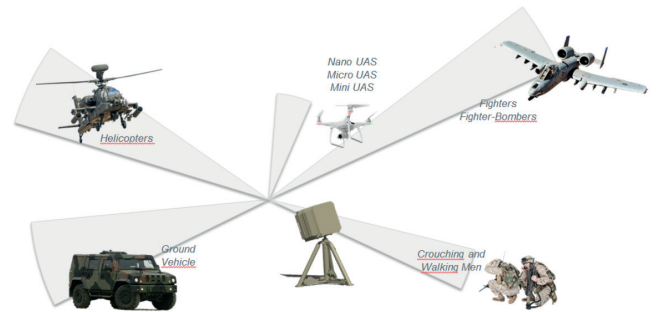
TMMR is a C-Band full AESA (Active Electronically Scanned Array) Antenna Radar designed to be “all-in-one” light-weight solution for high mobility needs with top of class performances.

TMMR is a fully digital radar, with direct sampling of RF carrier, which uses high efficiency GaN technology and ‘on-chip’ signal processing all packed in single a sealed panel.

Using passive cooling with no physical moving parts it provides extremely high reliability, even in the harshest environments and in presence of strong winds, dust and rain.

## OPERATIONAL MISSIONS

- C-UAS (Counter-Unmanned Aerial Systems)
- V-SHORAD (Very Short Range Air Defence)
- C-RAM (Counter-Rocket Artillery Mortar)
- Land and Coastal Border Surveillance
- Air Surveillance Gap Filler
- Land Patrolling
- Battlefield Surveillance
- Airport / Critical Infrastructure Surveillance
- Vehicles Protection



## TECHNICAL SPECIFICATIONS

- C-Band AESA (Active Electronically Scanned Array)  
An-tenna with integrated internal processing
- GaN (Gallium Nitride) TRM (Transmitter Receiver Modules)
- Digital waveform generation and distribution
- Digital Beam Forming (DBF)
- Automatic Target Classification
- Elevation Coverage: 0° -90°
- Azimuth Coverage (1 fixed panel): 90° (120° degraded)
- Up to 4 antennas automatic management
- Detection Ranges:
  - > 7 Km for micro drones
  - > 25 Km for modern fighters
  - > 20 Km for vehicles
- Weight < 50 Kg (hand portable by two persons)
- Radar Panel Volume < 50 dm<sup>3</sup>
- Power consumption < 550 W (at 28 V nominal voltage)

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