



EMADS

ENHANCED MODULAR AIR DEFENCE SOLUTIONS

Enhanced Modular Air Defence Solutions (EMADS) is a rapidly deployable point and area defence system to protect mobile and static high value assets.

Operating in all weather conditions, EMADS provides protection against the spectrum of complex air targets including low level terrain following and high altitude threats.

EMADS utilises the Common Anti-air Modular Missile (CAMM) family of air defence missiles, and is designed for land environments and allows operational advantages and reduces logistic cost.

Operational advantages

- **Wider battlespace network**
EMADS offers land-based forces a highly effective and easily deployable, point and local area air defence system, capable of operating as either a stand-alone unit or integrated within a battlespace network. The use of third party target information from the wider battlespace network allows the system to engage targets that are non-line-of-sight from the local sensors.
- **Compact and high performance**
The lightweight and compact design allow multiple missiles to be carried by vehicles. The Soft Vertical Launch (SVL) technology provides a true 360° air defence capability and a weapon system that can be easily concealed and quickly deployed; missiles can be fired from urban settings or woodland clearings.
- **High rate of fire against multiple simultaneous targets**
Each launcher is scalable and can carry multiple CAMM or CAMM-ER missiles, providing coverage against multiple simultaneous threats. The launchers are highly mobile with excellent off-road capability. The launcher provides EMADS with pre-launch targeting information based on track data from a suitable radar sensor. Target updates to in-flight missiles via a secure two-way data link further improving capability against stressing, manoeuvring threats.
- **Optimised logistics**
EMADS can be rapidly deployed with minimal manpower, utilises a rapid eight missile pack reload, high reliability with built-in test facilities and a low support equipment requirement.

GROUND BASED AIR DEFENCE

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Product key features

EMADS is capable of operating as either a standalone unit or integrated within a battlespace network, the system can be tailored to meet each customer's preferred way of operating, giving exceptional operational flexibility.

The system has been designed for interoperability with a wide range of existing and future Ground Based Air Defence C2 systems and other air defence weapons to support an integrated, layered air defence structure.

System integration

The benefits of using a common solution for multiple platforms and services include:

- Common components that can be used to create a modular weapon system
- Broad target set including high speed, manoeuvring, low signature targets in high level countermeasure environments
- Can be used with a variety of surveillance sensor systems
- Command and Control system common to all surface deployments
- Cost benefits of sharing missile stockpiles
- Affordability due to low procurement and through-life costs
- Optional Electro-Optical sensor
- EMADS will replace Rapier within UK MOD in 2020
- EMADS, the CAMM-ER missile and Kronos radar, will replace SPADA with the Italian Armed Forces