NOMADS

NATIONAL MANOEUVRE AIR DEFENCE SYSTEM

KONGSBERG

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Short Range Air Defence for Mobile Operations

The National Manoeuvre Air Defence System (NOMADS) is designed for mobile airspace protection of forces and axis in dynamic and contested land warfare environments.

As an integrated part of the KONGSBERG Full Spectrum Air Defence (FSAD), NOMADS provides the mobility and firepower needed to meet the dynamic requirements of modern manoeuvre combat operations.

Combat-Proven Heritage

NOMADS has been developed based on the heritage of the highly effective and combat-proven Medium Range Air Defence System NASAMS.

NOMADS complements NASAMS by giving manoeuvering forces, typically battalions and brigades, the ability to counter a larger portion of the threat spectrum closer to the frontline.

NOMADS features

Capacity against

- Cruise missiles, helicopters, aircraft and UAVs

Passive sensors

- Day/Night camera
- Thermal camera

Active sensors

- 3D FMCW radar
- Laser Range Finder

Effectors

- 4x AIM-9X Block II Sidewinder missiles ready to fire
- 0.50 cal. HMG on Remote Weapon Station (RWS)
- RF Directional jammer (optional)
- Other effectors tailored to customer needs

C2 & communication

- NASAMS advanced C2 heritage
- Flexible VHF & UHF communication
- IFF NATO Mode 5, Level 2
- Fully netted & distributed air and missile defence operations

Autonomous & Networked

NOMADS is built for maximum efficiency on the battlefield, capable of operating and completing air defense missions both autonomously and in networked Fire Units (FU).

NOMADS seamlessly integrates with a larger NASAMS network and can interoperate with NATO Integrated Air and Missile Defence (IAMD) to be a part of any Ground-Based Air Defence (GBAD) Task Force, through standard NATO Tactical Data Links (TDL) such as Link 16, and JREAP-C.

Advanced Capabilities

NOMADS has the mobility to get into optimal positions to sense and shoot within seconds. This enable NOMADS to operate effectively on the dynamic land warfare frontline battlefield.

The module includes four dual-use passive seeker missiles, ready to launch. These missiles utilize the same advanced Threat Evaluation and Target Acquisition (TEWA) algorithms as NASAMS.

A Frequencey-Modulated Continous Wave (FMCW) 3D radar offers instrumented range of 75 kilometers. It is capable of both stop-and-stare operations and detecting targets while on the move.

Vehicle Agnostic Design

NOMADS features a Short Range Air Defence (SHORAD) module mounted on a 10-foot pallet. This versatile, vehicle-agnostic design allows the module to be integrated with any mechanized vehicle, provided it meets the necessary requirements.

Key Elements

- All-in-One System: Command & Control (C2), sensors, and effectors on the same platform
- Autonomous & Network Capabilities: Operates independently and interoperates with other systems
- FMCW 3D Radar: Provides 75 km instrumented range, sense on the move
- Missiles: Ranges beyond standard SHORAD, dual-use (air-to-air and ground-to-air)
- Superior Performance: Short into action time, high firepower and maximum efficiency
- Self-Protection: Equipped with armor and Remote Weapons Station (RWS)
- Interoperability: Integrated with NASAMS and other air defense systems via standardized data links
- Vehicle Agnostic: SHORAD module can be fitted onto various vehicles
- Transportability: Transportable by air, sea, and land
- Mobility: Speed up to 70 km/h

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