

# ELECTRONIC COUNTERMEASURES EQUINOX™ NG

## Modular, Scalable, Open-Architecture Electronic Warfare Platform

EQUINOX™ Next Generation (NG) is the flagship Electronic Countermeasure (ECM) system from Allen-Vanguard. The highly scalable and flexible technical architecture has been developed around leading global standards for Electronic Warfare (EW) systems allowing EQUINOX™ NG to be easily configured for a wide range of scenarios. From armoured vehicles in operational theatres to VIP convoys or vulnerable fixed site locations the system can be configured and integrated with relative ease.

Accompanying this agile, hybrid system is Allen-Vanguard's world renowned Threat Management Team and global Customer Service Support ensuring that such a critical capability continuous to deliver true effectiveness to its users anywhere in the world.

### EQUINOX™ NG

Any Role • Any Mission • Assured Protection



Unit is available in alternate colours

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# EQUINOX™ NG

## SPECIFICATIONS

### PHYSICAL

For a typical 5-channel, air-cooled configuration:

Weight	➤ 51 kgs (112 lbs)
Dimensions	➤ 27 cm (H) x 44 cm (W) x 52 cm (D) (10.5" x 17.5" x 20")
System Cooling Options	➤ Forced air – each module is independently cooled ➤ Liquid cooled option available
Installation	➤ Flexible physical configuration; image overleaf shows five RHs and a Shared Processing Unit (SPU) in a 3x2 arrangement ➤ Modules can be mounted in a distributed fashion, internally or externally to the vehicle ➤ All modules compatible with 24/28V power systems

### RADIOHEADS (RH)

Operating Frequency Range	➤ RH-A – 20 MHz to 500 MHz (100W) ➤ RH-B – 450 MHz to 2500 MHz (75W) ➤ RH-C – 1700 MHz to 2700 MHz (75W) ➤ RH-D – 2400 MHz to 6000 MHz (25W)
Dataplane	➤ 10 Gbps interface option available for transport of MORA compliant digitized RF data

### CONFIGURATION

Command and Control	➤ Shared Processing Unit (SPU) delivers system control, HMI, BIT reporting and PNT distribution ➤ Supports between 1 and 10 digital RH with scalable computing resources
Software Designed Radio (SDR)	➤ Option for adjunct computing system to enhance computing resources to support evolving algorithms

### ENVIRONMENTAL

Designed to meet:

Operating Temperature	➤ -20°C to +50°C (-4°F to +122°F) – Standard Forced Air
Storage Temperature	➤ -40°C to +70°C (-40°F to +158°F) – Standard Forced Air
Standards	➤ MIL-STD-461F, MIL-STD-810H

### HUMAN-MACHINE INTERFACES

The SPU and RCU provide a simple, common human-machine interface (HMI) that is compatible with night vision optics

Control Functions	➤ System power on/off, system operate/standby toggle, fill selection, fill purge, audible/visible indicator disable
Audible Indicator	➤ Internal buzzer
Integration	➤ Software compatible with variety of vehicle C2 systems

### SOFTWARE

- Fully programmable with intuitive PC-based user interface
- Active, reactive and hybrid EW Shield applications – Standard
- Software development kit (SDK) available to support the development of 3<sup>rd</sup> party applications; CMOS based
- Full software support packages available

### INTEROPERABILITY

- Ability to program range of techniques to ensure operation with other assets

### UPGRADEABILITY

- Firmware is field upgradeable
- C-UAS Configuration
- Hardware design allows for the simple addition or replacement of radioheads both internal and external to the vehicle

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Allen-Vanguard is ISO 9001:2015 Certified



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