

# **NEMESIS**

**GPS L1 & L2 Bands Denial System**

AMS Defence Integrated Systems

## NEMESIS GPS L1 & L2 BANDS DENIAL SYSTEM

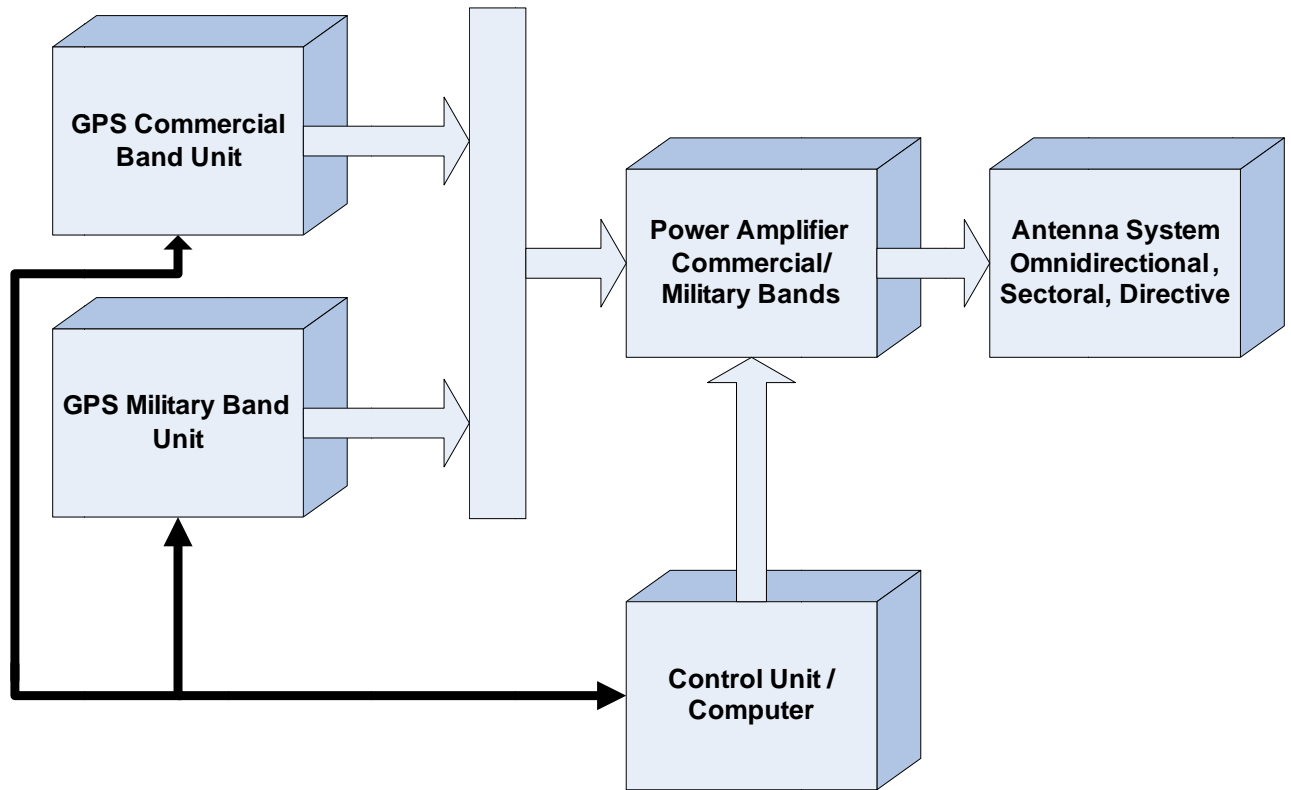
NEMESIS is AMS novel GPS denial system that covers both military (L2) and commercial (L1) frequency bands. This versatile GPS denial system has a fully programmable low power unit which can be programmed for almost any jamming waveform needed and then through microwave frequency converters the jammer can be configured to operate in any frequency band from the above mentioned. In the following table some of the main specifications of the GPS denial system are depicted.

Specification	Comments
Frequency of operation Commercial GPS band (1.575 GHz) Military GPS Band (1.227 GHz)	The system can operate in parallel or independently in each frequency band.
Output Power levels	Power levels range from 100 Watt to 1 KW
Transmitting Antenna	There is a variety of antennas that can be used. Omni-directional, sectoral or high gain antennas (dishes or horns) are possible depending on the customer needs.
Operational Range (Line of Sight)	For the commercial band the range is 25-80 km. For the military band the range is 12-45 km.
Power supply	Power supply can be either DC or AC and it is fully configurable by customer needs.
Options	Wireless Remote control through WLAN 802.11b/g/a, or other wireless standard. Wired Remote control through TCP/IP.
Environmental-Mechanical	All units are ruggedized and conform to the best industrial standards. Military standards are possible upon customer request.

NEMESIS can be installed on permanent locations to protect buildings against foe missiles or deployed either on a small vehicle or battleship depending on their output power capabilities and the operational planning.

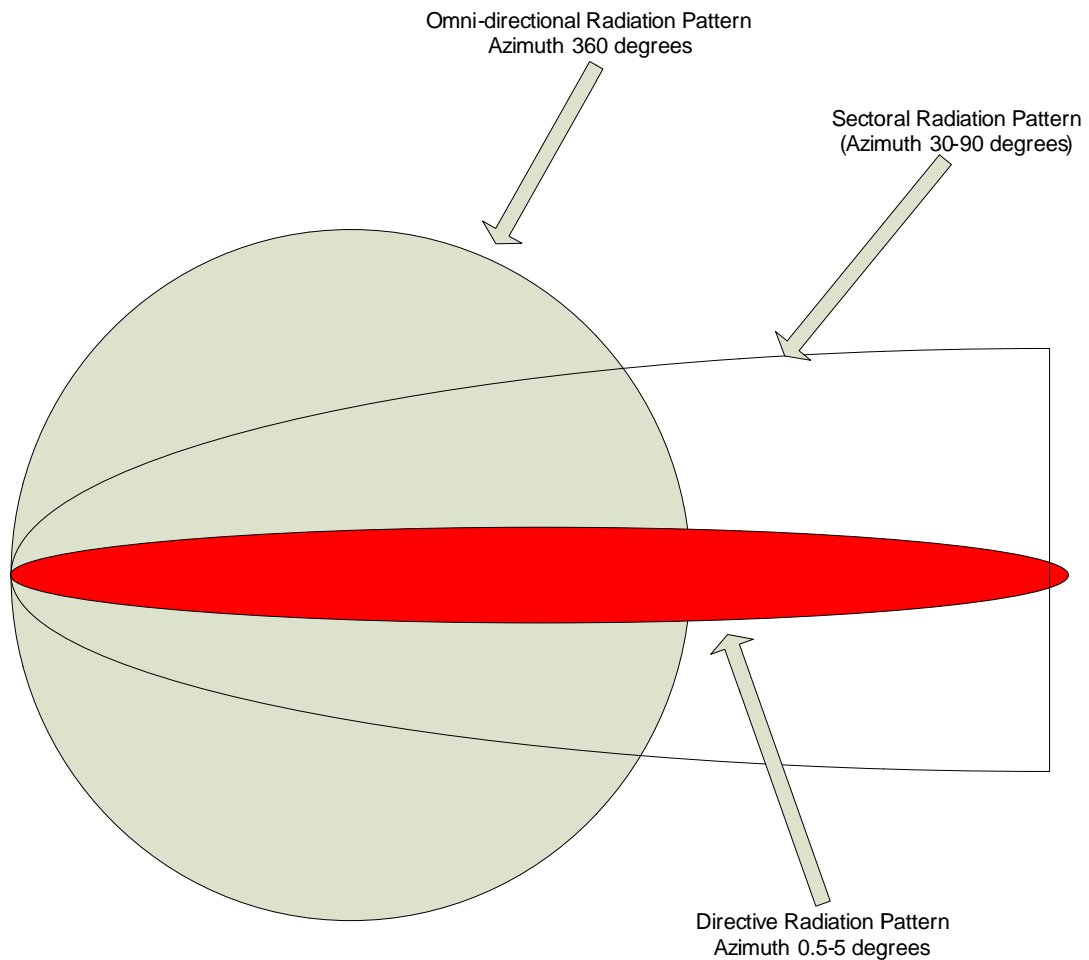
Since such systems are fully configurable according to customer needs typical delivery times range from 6 to 12 months according to the complexity and functionality set by the customer.

In figure 1 the system block diagram of the operation of GPS denial system is shown. The modular design of this system permits the usage of it as a dual band or as a single band one.



**Figure 1: Operational configuration**

The reconfigurable nature of this product permits the user to deploy it to any vehicle, battleship or aircraft.



**Figure 2: Artistic view of the GPS denial system radiation patterns.**

In figure 2 the radiation patterns and the azimuth beamwidths in degrees are just indicative. In fact, any pattern that the customer requests is possible.

#### Media Contact

**Dr. Yorgos Stratakos**  
**Tel: +30 210 4838442**  
**Fax: +30 210 4838446**  
**y.stratakos@ams-mw.com**

#### AMS Defence Integrated Systems

**25<sup>th</sup> Martiou 2, Tauros**  
**Athens, Greece**  
**Tel: +30 210 4838442**  
**Fax: +30 210 4838446**  
**www.ams-mw.com**  
**sales@ams-mw.com**