

Satellite Navigation Immune Receivers (SNIR)

Countering GPS jam threats

KEY FEATURES

The Satellite Navigation Immune Receivers (SNIR) are a family of comprehensive digital anti-jam immune GPS receivers. They use advanced algorithms, signal processing, and anti-jam techniques to support navigation systems in a multiple-jammer environment, on land, sea, and air platforms, and on air-to-ground and ground-to-ground munitions.

Produced with BAE Systems' expertise in various antijamming technologies, this modular system offers such features as null steering, an adaptive antenna array, multiple antenna inputs, dual frequencies (L1/L2), and ultratight coupling with inertial systems.

The integrated, ultra-efficient GPS processing unit of SNIR receives input and performs complex antijam and GPS navigational calculations in one step. This powerful system also can function as an add-on module to existing GPS systems. Transparent to the onboard GPS receiver, SNIR can be used with any legacy or emerging GPS receiver.

The system also can be customized with different antenna array types tailored to meet the needs of a variety of customers and applications.

SNIR has handled multiple complex challenges during extensive field tests and, having met the latest and most stringent aerospace standard (AS 9100), it is deployed and operational.

BAE Systems ROKAR designs, develops and manufactures advanced GPS solutions for space, airborne, naval, and ground applications. The company is an approved manufacturer of high-end, high-dynamic GPS receivers that enable in-flight adjustment of rockets and smart munitions. SpaceNav GPS receivers, for example, currently orbit aboard low-earth-orbit satellites.

The company's exceptionally stringent procedures covering all aspects of design and production enable high reliability and ensure that products operate flawlessly at levels exceeding specifications.

A family of comprehensive digital anti-jam GPS receivers

For land, sea, air, and guided munitions applications

Field tested and operational systems

Industry-leading signal processing and advanced algorithms

Available as an add-on module for existing GPS systems



VERSATILITY FOR AIR, NAVAL, ARMAMENT, AND GROUND APPLICATIONS



FOR MORE INFORMATION, CONTACT:

BAE Systems Rokar
Science Based Industry Campus
Mount Hotzvim P.O.B. 45049
Jerusalem 91450 Israel
Telephone: 972 2 5329888
E-mail: rokar.marketing@baesystems.com
www.baesystems.com

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