

iPRENA-III:

Next Generation INS/GNSS Inertial Navigation & Guidance System for Defence Applications

With iPRENA-III an RLG based high accurate INS/GNSS system is launched which is not affected by any ITAR regulations and which is handled under standard dual use export control only. The system is designed for navigation and guidance applications as well as for most accurate surveying applications with interfaces to wheel sensor, LIDAR or cameras.

The iPRENA-III is a successor of our well-known iNAV-RQH system, which is now in the market for more than 15 years, but it comes additionally with lower power consumption, smaller size, less weight and extended interface capabilities including Ethernet (UDP, TCP/IP), UART RS422/RS232, CAN, ARINC429, ARINC825, HDLC, USB. The system supports GPS, GLONASS, Beidou, GALILEO and TerraStar, provides RTK and optionally SAASM capability and contains internally 32 GByte for online data storing. The system is qualified to MIL-STD-810G, MIL-STD-416F, MIL-STD-704F and DO-160G.

Beside of several confidential defence applications, the industrial version of iPRENA-III, the iNAT-RQT, has been e.g. selected by Airbus Helicopters as Flight Reference System and by Swiss Rail for most accurate train location tasks.



About iMAR Navigation GmbH

iMAR Navigation GmbH is a leading German manufacturer of inertial measuring systems and solutions for navigation, stabilization, surveying, guidance and control, being designed for marine, surveying, automotive, autonomous driving and industrial applications, but often used in defence applications due to its reliability and robustness.

iMAR Navigation GmbH, based in St. Ingbert, Germany, has extensive experience in design, development, production and maintenance of inertial measuring and navigation systems destined to a wide range of standard and special applications in various fields like defence, surveying, stabilization, guidance and control. iMAR is certified to ISO9001 and EN9100. With its EASA Part21 G certification iMAR is also enabled to manufacture components and systems for aviation.

Internet: www.imar-navigation.de
Contact: sales@imar-navigation.de