



NAVBOX

An integrated navigation solution for land & marine applications



NAVIGATION BOX

Performance

The NAVBOX is an integrated unit which simplifies all your navigation needs. It includes GNSS, INS & a computer in a compact housing. This simplified yet versatile set-up is easy to use for a wide range applications.

This NAVBOX is composed of the state-of-the-art technologies:

- Embedded computer,
- GNSS Receiver,
- Inertial Navigation System (INS)
- Power supply & communication hub for user devices (e.g. SONAR, RADAR,...).



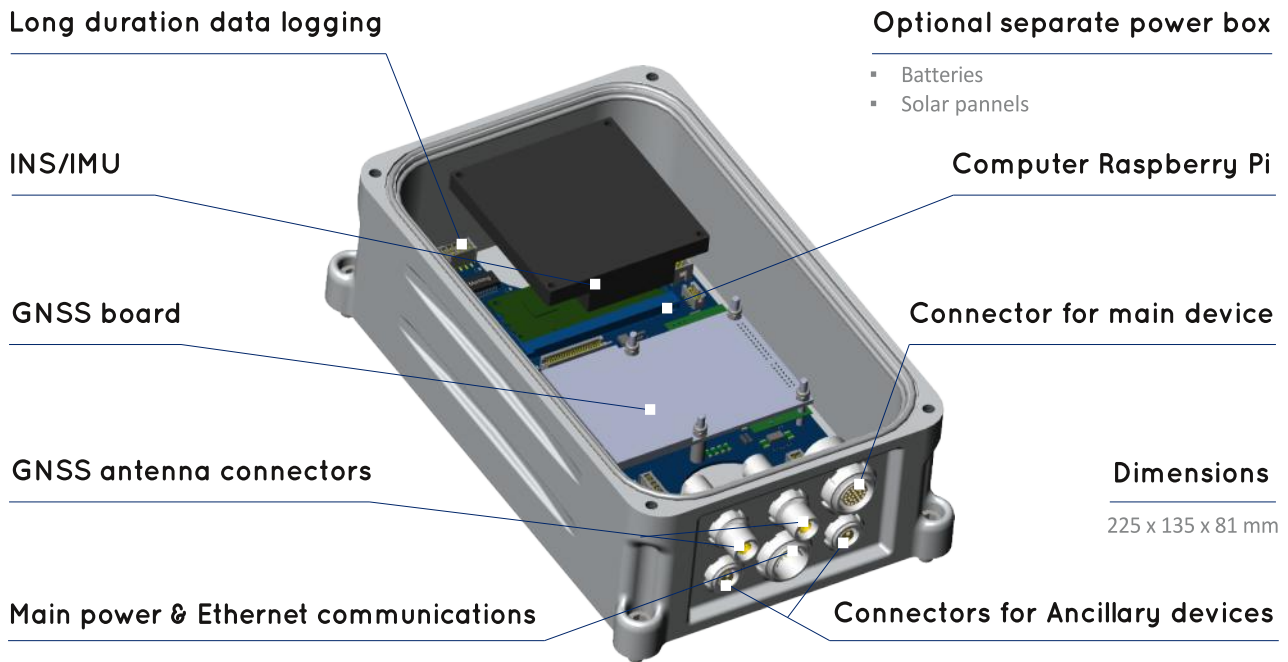
THE NAVIGATION SOLUTION FOR WIDE RANGE APPLICATIONS

Adaptability

The NAVBOX is durable for harsh environment with IP68 rating. Its compact design makes it suitable for any confined space (e.g. AUV, USV...). It is designed for low-power requirements for long duration uses at remotely accessible areas.



NAVBOX CONFIGURATION



TECHNICAL SPECIFICATIONS

Configuration options & Technical specifications

GNSS:	<ul style="list-style-type: none"> ▪ Hemisphere H328 or Vega™ 40 GNSS Compass board. ▪ Trimble BD992 Dual Antenna, positioning & heading with RTK omniSTAR support. ▪ Trimble BD992-INS. 	<p>GPS, GLN, GAL, QZSS, BDS, L-Band (Atlas), IRNSS (Vega™ 40 only) heading (0.04° @ 2m baseline), L1/L2, RTK 1cm, rover, 20 Hz (option), 0.5° pitch & roll (Vega™ 40) / 1° pitch & roll (H328).</p> <p>GPS, GLN, GAL, BDS, L-Band (Omnistar), heading (0.09° @ 2m baseline), L1/L2/L5/E6, RTK 1cm, rover, 50 Hz.</p> <p>GPS, GLN, GAL, BDS, L-Band (Omnistar), heading (0.09° @ 2m baseline), L1/L2/L5/E6, RTK 1cm, rover, 100 Hz, 0.1° pitch & roll.</p>
INS/IMU:	<ul style="list-style-type: none"> ▪ Ellipse Series ▪ Navsight Ekinox Series 	<p>0.1° pitch & roll, 1° heading (magnetometer), 5 cm real-time heave.</p> <p>0.02° pitch & roll, 0.05° heading (w/ GNSS), 5 cm real-time heave.</p>
Computer:	<ul style="list-style-type: none"> ▪ Raspberry Pi CM3+ 	<p>32 Gb eMMC, 1Gb SDRAM (+32Gb SD card), Cortex A53 (ARM) 64-bits.</p>
Power supplies:	<ul style="list-style-type: none"> ▪ Communications: ▪ Input power range: +12 to 36 VDC ▪ Power requirement: ▪ Power outputs: 	<p>Ethernet 100BASE-T and 1000BASE-T.</p> <p>Operating temperature 0° to 70°C 20 W INS + GNSS solutions.</p> <p>+12 VDC @ 3A (All outputs combined) +24 VDC @ 4A (Isolated power supply).</p>

FROM A TO Z



Systems design engineering.



Software development for our own products or for new interfaces with customers systems.



Remote technical support.

A WIDE RANGE OF APPLICATIONS



Marine services



Research



Environment



Natural Ressources



Archeology



Military REA

ITER Systems

ITER Systems is a highly experienced team of engineering and expertising in underwater surveying equipment. The company provides innovation, quality product at an affordable price, for the international market with high quality technical support.

A team of specialized engineers are located in France and England to answer all your needs.

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