

Trimble BX992

Dual-antenna heading receiver with optional inertial navigation system

The **Trimble® BX992** is a dual antenna GNSS receiver offering precise heading capability and multifrequency support for all known constellations. Additionally, with support for MSS L-Band OmniSTAR®, Marinestar or Trimble RTX® services, the BX992 provides location without the use of a base station.

GNSS and inertial tight integration

Taking advantage of Trimble's expertise in both GNSS and the optional inertial technology, the BX992 module is designed for applications requiring continuous centimeter accuracy and heading in a compact unit. By integrating inertial sensors on the same module, robust high accuracy positions, altitude and orientation are produced.

Multi-constellation GNSS tracking

The Trimble BX992 supports multi-frequency for all constellations. As the number of satellites in the constellations grows, the BX992 is ready to take advantage of the additional signals. This delivers the quickest and most reliable RTK initialisations for precise positioning.

For applications that do not require centimeter accuracy, the BX992 integrated GNSS inertial engine also delivers high accuracy DGNSS positions in the most challenging environments such as urban canyons.

With the latest Trimble Maxwell™ 7 Technology, the BX992 provides:

- 2 x 336 Tracking channels
- Trimble EVEREST™ Plus multipath mitigation
- Advanced RF spectrum monitoring and analysis
- Proven low-elevation tracking technology

With the option of utilising Marinestar or Trimble RTX services, the BX992 delivers varying levels of performance down to centimeter level without the use of a base station*.

More than just a GNSS receiver

The BX992 integrates the latest in precision inertial sensors including:

- High update rate position and orientation solution
- Dual-antenna for rapid heading alignment
- Continuous positioning in challenging GNSS environments with the optional INS option installed
- Lever arm calculation from antenna to reference point of interest
- Robust Moving Baseline RTK for precision heading on moving platforms

Flexible interfacing

The BX992 is designed for easy integration and rugged dependability, and you will benefit from Ethernet connectivity. The Ethernet connectivity available on the board. USB, CAN and RS-232 are also supported. Easy to use software commands simplify integration and reduce development times. Dynamic and graphic models for various vehicle types can be viewed and configured using the intuitive 3D interactive graphical web page.

Different configurations of the module are available.

These include everything from a DGPS L1 unit all the way to a four constellation triple frequency RTK unit. All features are password upgradable, allowing functionality to be upgraded as your requirements change.

Benefits

- Optional upgrade for onboard inertial sensor package integrated with GNSS for precise position and orientation
- Flexible RS232, USB and Ethernet interfacing, allowing high speed data transfer and configuration via standard web browsers
- Scalable accuracies up to centimeter level.
- Environmentally sealed IP67 enclosure built to withstand harsh environments
- Small form factor makes it ideal for use in applications where space is limited
- LED indicators on the receiver provide immediate performance feedback for Power, RTK Corrections, and satellite tracking status
- Trimble RTX and Marinestar Support





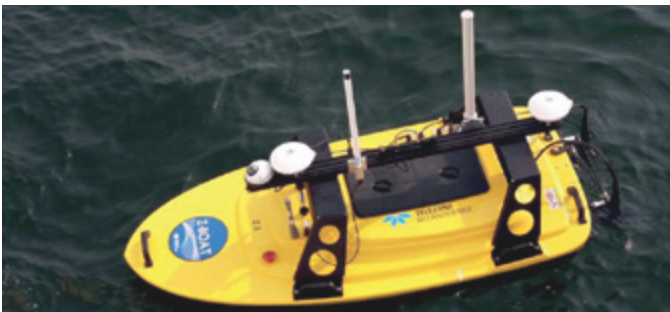
Trimble Marine BX992

GNSS Heading Receiver



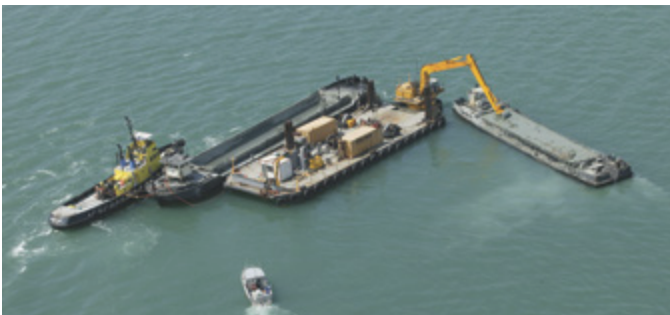
Hydrographic surveying

Due to its compact size and precise heading capability, the BX992 is a reliable and easy to use GNSS system for hydrographic surveying. Not only does it have a simple user interface (UI), but it is also durable and accurate (~1 cm, RTK; heading: better than 0.09° on short antenna baselines).



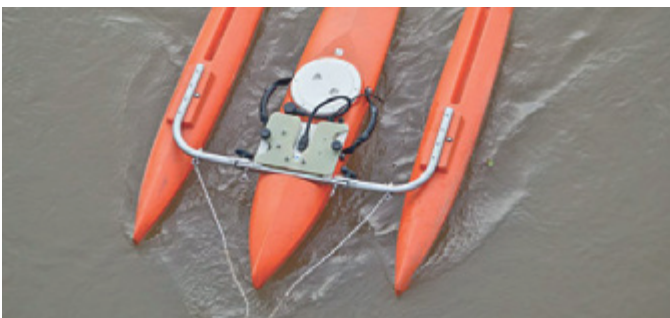
Unmanned surface vehicle (USV)

The BX992 supports all known constellations as well as MSS L-Band RTX and Marinestar corrections. Additionally, its small form-factor makes it ideal for use on lightweight unmanned surface vessels.



Marine Construction

The BX992 provides precise (.09°) RTK heading and positional accuracy to within 1-2 cm. It also integrates with the Trimble Marine Construction (TMC) dredge system for machine guidance, including barge and tug placement.



Acoustic Doppler Current Profiler (ADCP)

Monitor water currents through inland waterways. When using a second antenna, get precise heading to 0.09° on short antenna baselines. The BX992 also provides standard 30/30 accuracy and L-Band corrections.

** Requires an ethernet switch when using SNM941 for internet connectivity*

Trimble Civil Construction
10368 Westmoor Drive
Westminster CO 80021
USA