



TRIMBLE PRECISION GNSS RECEIVER MODULES

HIGH-PRECISION POSITIONING SOLUTIONS FOR THE SYSTEMS INTEGRATOR

PRODUCT BROCHURE



INTRODUCTION

Trimble offers the latest centimeter-level positioning technology to system integrators for a variety of guidance and control applications. The Trimble GNSS receiver modules harness GPS L1/L2/L5 and GLONASS L1/L2 signals and are easy-to-integrate into specialized or custom hardware solutions to provide fast RTK initialization with proven low-elevation tracking. Configurations include a single-board solution for precise position and heading; decimeter positioning with OmniSTAR XP/HP support; and tracking the experimental Galileo GIOVE-A and GIOVE-B test satellites for signal evaluation and test purposes.



Trimble's GNSS receivers are designed for easy integration and rugged dependability. Just like other Trimble embedded technologies, easy to use software commands simplify integration and reduce development times. All software features are password-upgradeable, allowing functionality to be upgraded as your requirements change. Industry professionals trust Trimble embedded positioning technologies as the core of their precision applications. The latest Trimble-precise Maxwell™ technology provides assurance of long-term future-proofing and trouble-free operation.

BD910

The Trimble® BD910 GNSS receiver module has been designed for applications requiring high accuracy from multiple GNSS constellations in a very small package. Mobile platforms can now embed proven Trimble RTK technology using a shielded module in a compact 41 mm x 41 mm x 7 mm form factor. The Trimble BD910 is a complete drop-in module manufactured and tested to Trimble's highest quality standards. This design ensures the high quality GNSS signals are protected from the sources of EMI on the host platform. It also significantly reduces radiated emissions which speeds compliance certification and time to market.



The Trimble BD910 supports the L1 frequency from the GPS, GLONASS, Galileo, and Compass constellations. An L1 RTK engine delivers 1–2 centimeter positions. For applications that do not require centimeter accuracy, the BD910 contains an advanced kalman filter PVT engine that delivers high accuracy GNSS, DGNSS or SBAS positions in the most challenging environments such as urban canyons.

BD920

The Trimble® BD920 GNSS receiver module has been designed for applications requiring centimeter accuracy in a very small package. Mobile platforms can now embed proven Trimble RTK technology using a shielded module with a 51 mm x 41 mm x 7 mm form factor. The Trimble BD920 is a complete module manufactured and tested to Trimble's highest quality standards. This design ensures the high quality GNSS signals are protected from the sources of EMI on the host platform. It also significantly reduces radiated emissions which speeds compliance certification and time to market.



The Trimble BD920 supports both L1 and L2 frequencies from the GPS and GLONASS constellations plus the E1 frequency from Galileo. This delivers the quickest and most reliable RTK initializations for 1-2 centimeter positioning. For applications that do not require centimeter accuracy, the BD920 contains an advanced kalman filter PVT engine that delivers high accuracy GNSS, DGNSS or SBAS positions even in the most challenging environments.

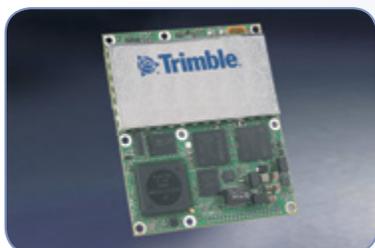
BD970



The Trimble® BD970 GNSS system is a compact multi-constellation receiver designed to deliver centimeter accuracy to a variety of applications. With the Trimble BD970, OEM's and integrators can be assured their investment is sound today and into the future. The Trimble BD970 GNSS supports a wide range of satellite signals, including GPS L2C and L5 and GLONASS L1/L2 signals. In addition, Trimble is committed to the next generation of modernized GNSS configurations by providing Galileo-compatible products available for customers well in advance of Galileo system availability. In support of this plan, the new Trimble BD970 is capable of tracking the experimental GIOVE-A and GIOVE-B test satellites for signal evaluation and test purposes.

With the latest Trimble-precise Maxwell 6 technology, the BD970 provides assurance of long-term future-proofing and trouble-free operation. Moving the industry forward, the Trimble BD970 redefines high-performance positioning: on-board multipath mitigation; proven low-elevation tracking technology; and dramatically improved RTK initialization.

BD982



The Trimble® BD982 GNSS system is a single board solution for precise position and heading. The product delivers the latest in GNSS signal support delivering multi-constellation RTK baselines between the two connected antennas and to a remote base station. With the Trimble BD982, OEM's and integrators can be assured their investment is sound today and into the future. The Trimble BD982 GNSS supports GPS L1/L2/L5 and GLONASS L1/L2 signals. In addition, Trimble is committed to the next generation of modernized GNSS configurations by providing Galileo-compatible products available for customers well in advance of Galileo system availability. In support of this plan, the new Trimble BD982 is capable of tracking the experimental GIOVE-A and GIOVE-B test satellites for signal evaluation and test purposes.

With the option of utilizing OmniSTAR VBS, XP, G2 and HP services, the BD982 delivers varying levels of GNSS performance right down to the sub-decimeter level, even without the use of a base station

BX982



The Trimble® BX982 GNSS receiver enclosure is a multi-channel, multi-frequency OEM GNSS receiver which allows OEM's and System Integrators to rapidly integrate centimeter level positioning and precise heading into their application. The Trimble BX982 supports GPS L1/L2/L5 and GLONASS L1/L2 signals. In addition, Trimble is committed to the next generation of modernized GNSS configurations by providing GALILEO compatible products available for customers well in advance of GALILEO system availability. In support of this, the BX982 is capable of tracking the experimental GIOVE A/B test satellites for signal evaluation and test purposes.

The Trimble BX982 was designed for easy integration and rugged dependability. Customers benefit from the Ethernet connectivity available on the board, allowing high speed data transfer and configuration via standard web browsers. Just like other Trimble embedded technologies; easy to use software commands simplify integration and reduce development times.

WHY TRIMBLE?

For over 30 years, Trimble has worked with OEM's around the world to develop reliable and innovative products and solutions. As an industry leader, Trimble manufactures and ships over 1 million GPS/GNSS receivers each year. Trimble delivers cost-effective, scalable, high-quality products and services to our diverse base of customers worldwide. Leverage the power of working with a single company that offers comprehensive capabilities for all applications.

QUALITY

At Trimble, delivering our products and services with quality is an integral part of how we do our work and how our products work for our clients. Quality is a commitment that is woven through every aspect of our business in order to provide our customers with the best in class products and solutions.

INNOVATION

Innovation remains at the core of Trimble's identity, as it has from the beginning. Our high level of R & D expenditures ensure we continue to push the frontiers of what is possible.

PRECISION

Trimble delivers industry-leading, centimeter-level positioning technology for applications that require high levels of precision. Customers can rely on the accuracy of measurements, positioning, or orientation.

INTEGRATION

Trimble products and solutions provide seamless integration for OEMs, whatever the application, with complete product integration no matter how complex. Trimble offers comprehensive, integrated solutions for specialized or custom hardware solutions.

PERFORMANCE

Trimble supplies comprehensive solutions that maximize performance. Our solutions offer specialized design and greater performance required to support a broad range of equipment and applications required by our customers and partners.

RELIABILITY

Trimble offers outstanding reliability in a wide range of guidance or control applications. Built on a solid framework of achievement, accuracy and consistent dependability of performance, customers can trust Trimble solutions.

FLEXIBILITY

Trimble products and solutions are easily adaptable to a diverse range of applications. Our customers benefit from advanced technology that is customizable to fit their specific business requirements. Interoperability provides a mix and match approach to solving customer's needs.

CUSTOMER FOCUS

At the center of Trimble's past, and future, success is an intimate knowledge of the user requirements that can be translated into practical and successful outcomes for the user.

SERVICE & SUPPORT

Quality, technology and service are the hallmarks of Trimble. With easy access to customer service, our customers are able to keep running continuously and efficiently. Our goal is your satisfaction, plain and simple.



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