

Trimble BD982

DUAL-ANTENNA RECEIVER DELIVERS CENTIMETER ACCURATE POSITIONS AND PRECISE HEADING

GUIDANCE AND CONTROL POSITIONING

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, GLONASS L1/L2/L3 and BeiDou B1, B2 signals. In addition, Trimble is committed to the next generation of modernized GNSS configurations by providing Galileo and BeiDou compatible products available for customers well in advance of these systems becoming operational. In support of this plan, the Trimble BD982 is capable of tracking Galileo signals for evaluation and test purposes.²

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.

DUAL-ANTENNA INPUT

Single antenna GNSS systems have difficulty determining where the antenna is positioned relative to the vehicle and object of interest, especially when dynamics are low. External sensors can be used to augment this however these tend to drift when static. Heading derived from dual-antenna GNSS measurements overcomes these issues and is now economically the right choice. The BD982 harnesses the power of the 220 channel Trimble Maxwell 6 Technology with dual chips supporting two antennas connected to the board. Independent

observations from both antennas are passed to the processor where multi-constellation RTK baselines are computed. A single connection to the board via RS232, USB, Ethernet or CAN delivers both centimeter accurate positions and less than a tenth of a degree (2 meter baseline) heading accuracy.

FLEXIBLE INTERFACING

The Trimble BD982 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. All software features are password-upgradeable, allowing functionality to be upgraded as your requirements change.

COMPACT DESIGN

The compact form factor is suitable for applications where lightweight is a necessity. The BD982 is rigorously tested to perform in the harsh environments your products are built for, with the reliability you expect from Trimble.

Key Features

- ▶ Dual-antenna inputs for precise heading calculation
- ▶ Multi-Constellation GNSS Support
- ▶ OmniSTAR VBS/XP/G2/HP support
- ▶ Flexible RS232, USB, Ethernet or CAN Interfacing
- ▶ Centimeter level position accuracy



