

Magellan DG14 RTK GPS Board

Magellan (France) has introduced the DG14 RTK which offers high-end precision in a low-cost GNSS unit. The DG14 RTK from Magellan is a cost-effective, sub-metre GNSS (GPS and SBAS) and Beacon receiver.

In the DG14 RTK, BLADE, Magellan's new proprietary GNSS processing technology, incorporates ranging and carrier phase signals from satellite-based augmentation systems (SBAS), such as WAAS, EGNOS & MSAS in the RTK computation. An embedded beacon receiver provides sub-metre differential positioning, when SBAS corrections are not available.

DG14 RTK customers can choose from a fixed centimetre solution or a "flying RTK" decimetre solution. Because it offers an optimised mix of speed and accuracy, the decimetre mode makes DG14 RTK the perfect solution for customers who need decimetre accuracy but don't want to spend the typical time necessary to achieve a decimetre fix. BLADE enables decimetre accurate position collection in about one-third of the time of the traditional float solution. In addition, BLADE enables DG14 RTK to support moving base operation and heading plus pitch/roll computation with auto-calibration for easy initialization. For best results, DG14 RTK rovers can be configured to use SBAS signals in addition to GPS for RTK positioning with any RTCM 3.0-compatible base station.

DG14 RTK was developed to meet the needs of demanding high-precision applications for machine control, agriculture, aviation, military, unmanned aerial vehicles (UAVs), robotics, marine survey and navigation.

<https://www.gim-international.com/content/news/magellan-dg14-rtk-gps-board>
