September 20, 2017

Trimble Introduces Lower Power GNSS-Inertial Boards for High Precision and Control Applications

SUNNYVALE, Calif., Sept. 20, 2017 /PRNewswire/ -- Trimble (NASDAQ:TRMB) introduced today a new family of Trimble® BD GNSS boards for high-precision guidance and control applications. The BD boards' simple connectivity and configuration allow system integrators and OEMs to easily add GNSS positioning and orientation—with the ability to upgrade its capabilities—using the same board footprint, connectors and software interface for specialized and custom hardware solutions.

The compact Trimble BD boards include a broad range of receiver capabilities, from high-accuracy GNSS only to full GNSS-Inertial features for positioning and 3-D orientation. Firmware options are upgradeable, allowing functionality to be added as requirements change. Product manufacturers in markets such as unmanned aerial vehicles (UAVs), autonomous vehicles, fleet management and aviation now have the ability to offer customers an extensive range of capabilities to meet all their needs.

The low-power BD family of boards includes the BD940 GNSS and GNSS-Inertial boards and all new top-of-the-line BD990 GNSS, GNSS-Heading and GNSS-Inertial boards, enabling customers to choose the most appropriate receiver for their applications. In addition, the BX940 and BX992 are available in a rugged enclosure for applications used in harsh environments.

Integrating Trimble RTX™ technology, which enables precise and robust location worldwide without the use of a base station, the BD boards are ideal for flexible positioning. Trimble RTX technology enables users to subscribe to a complete portfolio of real-time correction services that deliver varying levels of accuracy depending on the user's application requirements.

The new BD family incorporates the latest Trimble Maxwell™ technology with advances in high-precision GNSS-Inertial positioning. By integrating inertial sensors onto the GNSS boards, users can experience more robust performance in a variety of challenging environments such as urban canyons, tunnels, heavy canopy or other GNSS-denied environments. Robust centimeter-level, real-time kinematic (RTK) positioning is achieved through the combination of multi-frequency GNSS—full triple-frequency support of all available GNSS satellite constellations—and onboard inertial sensors. System integrators and OEMS also have the ability to detect interference with the included RF Spectrum Monitoring and Analysis tool embedded in the receiver. The GNSS engine with 336 channels is capable of tracking L1/L2/L5 frequencies from the GPS, GLONASS, Galileo and BeiDou constellations.

"The OEM and system integrator communities demand high performance, reliability and support for their positioning solutions," said Elmar Lenz, general manager of Trimble's Integrated Technologies Division. "The new BD family of boards deliver the latest GNSS and inertial technology in an easy-to-integrate form factor."

The new Trimble BD OEM GNSS family is available now through Trimble's Integrated Technologies Precision GNSS Sales Channel.

About Trimble Integrated Technologies

Trimble's Integrated Technologies Division provides high-precision OEM GNSS modules for positioning and navigation solutions that serve a broad range of applications such as land and marine surveying, dredging, meteorology, transportation, asset tracking, oil and gas research, ground vehicle navigation and other geo-positioning/geo-referencing applications. Easy to integrate radio and high-precision GNSS modules offer OEMs and system integrators the ability to differentiate their products and gain a competitive edge in the marketplace.

For more information, visit: www.InTech.trimble.com.

About Trimble

Trimble is transforming the way the world works by delivering products and services that connect the physical and digital worlds. Core technologies in positioning, modeling, connectivity and data analytics enable customers to improve

productivity, quality, safety, and sustainability. From purpose built products to enterprise lifecycle solutions, Trimble software, hardware and services are transforming a broad range of industries such as agriculture, construction, geospatial, and transportation and logistics. For more information about Trimble (NASDAQ:TRMB), visit: www.trimble.com.

GTRMB

View original content:http://www.prnewswire.com/news-releases/trimble-introduces-lower-power-gnss-inertial-boards-for-high-precision-and-control-applications-300522520.html

SOURCE Trimble