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EPSON'S NEWEST INERTIAL MEASURE UNITS (IMU) G364 & G354



- San Jose, California, May 2nd, 2016

Epson, the world's leading manufacturer of Quartz MEMS inertial sensors, has released two new inertial measurement units (IMUs), the G364 and G354. Building upon Epson's high-precision QMEMS sensor architecture, these new products offer improved stability and shock/vibration resistance, enabling a new level of precision in demanding environments. These new products will be shown for the first time publicly at AUVSI's Xponential 2016, the world's largest international exposition of unmanned systems to be held from May 2nd - 5th in New Orleans, LA, USA.

These new IMUs have three axes of gyroscopes and accelerometers, plus provide built-in support for two widely-used industrial interfaces: SPI and UART protocol. At just 24x24x10mm in size, these next-generation units offer 2.2 & 3.0 degree per hour gyro bias stability (G364 and G354, respectively). Sampling and volume production of the products will commence in May 2016.

Leveraging their success with industrial markets, Epson has focused R&D efforts on building IMU products that tout excellent stability and resolution while implemented in challenging environments. Applications for the new G364 and G354 IMUs include construction machine control, precision agriculture auto-steering and unmanned vehicle guidance - all of which introduce high levels of vibration and shock that traditionally hinders MEMS IMU performance. Epson is able to offer enhanced vibration and shock rejection thanks to a completely-redesigned metal housing and internal architecture that isolates the inertial sensors while also facilitating top/bottom mounting via a high-reliability connector for easy integration.

Enhanced components inside the G364 and G354 IMUs deliver increased long-term reliability, an expanded operating temperature range, improved sensor stability and resolution, plus a 40% reduction in power consumption. Seeking to facilitate deeper levels of integration into GPS-INS applications, Epson has also added new software features including delta angle/delta velocity output and an expanded selection of output data rates.

"The G364 and G354 IMUs demonstrate Epson's cutting-edge MEMS IMU technology, delivering industry-leading performance in increasingly demanding environments," says David Gaber, Senior Product Marketing Manager at Epson Electronics America. "As our customers continue to push the limits of their technologies, we stand behind them with robust IMU products to meet their challenges with legendary Japanese quality."

Upcoming Trade Shows

Epson will exhibit and demonstrate its latest IMUs at AUVSI's Xponential 2016, the world's largest unmanned systems and robots symposium and exhibition.

Date and place: May 2-5 at the Ernest N. Morial Convention Center in New Orleans, LA.

Epson booth number: 941

Please see the link below for further details about the exhibition.

<http://www.xponential.org/auvsi2016/public/enter.aspx>

Related Links

Please see the link below for further details about these products.

http://global.epson.com/products_and_drivers/sensing_system/

About Epson

Epson is a global technology leader dedicated to connecting people, things and information with its original efficient, compact and precision technologies. With a lineup that ranges from inkjet printers and digital printing systems to 3LCD projectors, smart glasses, sensing systems and industrial robots, the company is focused on driving innovations and exceeding customer expectations in inkjet, visual communications, wearables and robotics.

Led by the Japan-based Seiko Epson Corporation, the Epson Group comprises more than 67,000 employees in 90 companies around the world, and is proud of its contributions to the communities in which it operates and its ongoing efforts to reduce environmental impacts.

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