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For Editors

Providing Electronic Solutions

YAS532 – Ultra Miniature Tri-Axial Geomagnetic Sensor

Willow Technologies Limited (www.willow.co.uk) highly acclaims Yamaha Corporations' latest sensational, **tiny** 1.5 x 1.5 x 0.65mm, **Tri-axial Geomagnetic Sensor IC**, for smartphones and tablet PCs.

Yamaha continues to develop ever smaller sensors to exceed the demands of the smartphone and tablet PC market. The new YAS532 is 56% smaller than its predecessor, the YAS530.

Yamaha's proprietary technology utilises a monolithic structure, generating sensor elements and CMOS circuits all on the same chip, eliminating the need to package a CMOS circuit chip with multiple sensor elements which would require wiring and assembling within the package. Produced in an 8 pin WLCSP format, the YAS532 is also more precise with an increase of 150% in dynamic range and consumes less power (4mA active and 1µA on standby.)

Martin Pearce, Marketing Director at Willow Technologies Limited commented "Yamaha's technology is highly regarded for GPS compatible mobile devices and personal navigation systems. The Wide dynamic range of YAS532 (±1200µT) is a huge advantage in minimising magnetic interference from other devices mounted on the miniature PCB's used in today's smartphones and other electronic appliances. This is a high resolution 3 axis device (0.15uT (X, Y), 0.25uT (Z)) with a standard I^2C Interface which operates with 1.7 to 2.8V over a temperature range of -40 to +95ºC."

As with the existing product, the new YAS532 is provided with auto-calibration software which uses proprietary algorithms and drivers for multiple OS types. These will be made available in a timely fashion along with the technical support required for the implementation of the geomagnetic sensor. Willow and Yamaha are committed to reduce the design load for their customers.

"With regard to the expanding geomagnetic sensor integrated circuit market," continues Pearce, "Yamaha plans to develop products that advance to even higher levels of performance."

Complementary software solutions have also been introduced:

- Sensor fusion software supporting various types of sensors - by combining and processing the information from multiple sensors in parallel and complementarily, we can offer improved performance and a user-friendly interface.
- Software that realises gyroscope sensor features in its functionality.
- Software with correctional features for near field communication (NFC) coils used in wireless chargers

"Based on the excellent quality and performance of Yamaha's geomagnetic sensor range, we are confident at Willow Technologies that this product will fast become a leading player in the market", concluded Pearce.

Editor Information

Founded in 1989, Willow Technologies is located in Copthorne, Surrey, UK. We provide electronic solutions to customers by designing, manufacturing and supplying components and systems globally to the electrical and electronic marketplace. Specialists in switching, sensing, resistive and hermetic seal solutions we have a wide portfolio of sensing technologies and over 60 years of application experience. Our in-house engineering capability and rapid prototyping facility for custom parts enable us to develop products to match specific application requirements. Willow is ISO9001:2000 registered.

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