

Smaller, Leaner, Meaner VTI announces smallest 3-axis gyro sensor with lowest power consumption

I-Micronews

Targeting motion control applications in consumer electronics, VTI Technologies announces at Electronica 2010 in Munich the world's smallest digital output 3-axis angular rate sensor with the lowest power consumption, the CMR3000.

The CMR3000 utilises a shared sensing mass and coupled resonator structure in orthogonal multi-mode operation. This eliminates cross talk between axes and requires only one drive loop. Patented simplified low current consuming phase-shift readout electronics and wafer level quadrature signal design enable excellent stability in real life environments.

Lowest current consumption

The CMR3000 boasts the market's lowest current consumption of 5 mA and is enhanced with a power save feature. In duty cycled operation, further current consumption reductions of tens of percent can be achieved. This can almost double the battery life in a portable device, such as a remote controller, significantly improving the user experience.

"The 3-axis gyro enabled motion controlled product market is booming. The CMR3000's lowest current consumption, excellent sensitivity stability and small size will help our customers to bring their products within that huge market," says **Mr. Pekka Kostinen**, Product Manager at VTI.

The CMR3000 is optimised for user interface and gaming applications. Due to gaming requirements the measurement range is +/- 2000 dps with selectable measurement bandwidths. For cell phones the wafer level package enabled smallest size of 3.1x4.2x0.8 mm³ with digital SPI and I2C interfaces is a clear benefit. *"Doubling the battery life time of motion controlled remotes also offers a huge advantage,"* adds **Mr. Kostinen**.

CMR3000 has been sampled among selected customers since summer 2010. Volume production and availability to all customers will begin in the first quarter of 2011.

Gyro only low cost wireless pointer

A VTI customer is developing a wireless pointing device based on the CMR3000 and a low cost 8051 microcontroller. Early prototypes will be available for demonstration at the Electronica fair from 9-12 November 2010 in Hall A2, VTI Booth 428.

VTI in Brief

VTI Technologies is a leading supplier of acceleration, inclination and angular

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motion sensor solutions for transportation, medical, instrument and consumer electronics applications. VTI develops and produces silicon-based capacitive sensors using its proprietary 3D MEMS (Micro Electro-Mechanical System) technology. For more information, please visit www.vtitechnologies.com.

VTI Technologies at Electronica 2010 in Munich, Germany: 9-12 November 2010, Hall A2, Booth 428.

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