

# XSENS Sensor Fusion DSP Module for Sagem

Sagem (Safran Group) is to integrate Xsens' sensor fusion signal processing modules in a new line of inertial navigation system products. As part of the supply agreement, Xsens has customised its 3D motion tracking sensor fusion algorithms to take full benefit of Sagem's Coriolis resonating gyros and silicon accelerometers.

Building on the XKF-3 sensor fusion algorithms for dynamic 3D orientation estimation, Xsens is delivering a custom DSP module which outputs very accurate vertical reference values, even in dynamic situations. Fabrice Delhay, VP Sales of Sagem comments: "Xsens has a thorough understanding of our specification and application, which they combine with expertise in the field of inertial systems and sensor fusion. The cooperation with Xsens is a strategic move for Sagem, which enables us to develop a range of innovative products and shorten our time to market significantly." Per Slycke, CTO of Xsens, adds: "We are very excited to have Sagem, one of the largest suppliers of inertial navigation systems in the world, as our customer in the years to come. The team at Xsens is dedicated to be a supplier that companies can trust, as well as a source of innovation and agility in the fast moving field of sensor fusion for 3D motion tracking."

Next to real-time calculation of robust roll, pitch and yaw rate, the DSP module supplied by Xsens will also provide the external interfacing to the user. The messaging protocol is fully compliant to Xsens' open CMT standard, making interfacing and development easy for engineers integrating the product. Developers already familiar with Xsens' MTi product line will find the electrical interface and communication API something they can get started with immediately.

Xsens will be exhibiting at AUUVSI's Unmanned Systems in Washington D.C., 16-19th August 2011 at Booth 2520.

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