Software provides in-air cursor control on 8-bit microprocessors for the smart TV market

Rockville, MD – August 28, 2012 – Hillcrest Labs unveiled a new addition to its award-winning Freespace MotionEngine software family: Freespace MotionEngine Lite. MotionEngine Lite provides high performance, in-air cursor control on 8-bit processors commonly found on remote controls, with lower costs and simpler integration than typical Smart TV motion control implementations. Hillcrest's Freespace MotionEngineLite software is available today for Texas Instruments Incorporated (TI) ZigBeeRF4CE (Radio Frequency for Consumer Electronics) and Bluetooth low energy solutions.

"MotionEngine Lite provides ultra-high performance cursor control with a minimized software footprint," said Chad Lucien, Senior Vice President, Sales & Marketing, Hillcrest Labs. "MotionEngine Lite includes Hillcrest's proprietary, patented orientation (or roll) compensation feature and does not require any end-user calibration, in contrast to other alternatives. We are also very pleased to launch this product line pre-integrated with TI's industry leading RF (radio frequency) solutions to enable a turn-key solution for the rapidly evolving Smart TV market."

"We are pleased to continue our work with Hillcrest to provide cost-effective, low-power solutions for customers interested in developing next-gen remotes, enabled by high-precision motion control," said Stig Torud, Remote Control Strategic Marketing, Wireless Connectivity Solutions, TI. "Hillcrest's MotionEngine Lite software combined with TI's ZigBee RF4CE and Bluetooth low energy solutions bring low-latency and high-performance cursor control to Smart TV, set-top box, and PC

motion remote controls."

Freespace MotionEngine Lite

The Freespace MotionEngine Lite motion software uses data from accelerometers and gyroscopes to provide high performance cursor control for enhanced content navigation, Web browsing, point-and-click gaming, and more. MotionEngine Lite integrates many of the same features and functionalities that have made Hillcrest's full MotionEngine [1] Smart TV software suite a market leader, including unique patented features, such as: orientation (or roll) compensation, real-time sensor calibration and precise cursor control. Hillcrest's sensor qualification process ensures equally high performance with sensors from any major MEMS supplier. MotionEngine Lite can also support cursor gestures through integration with Hillcrest's host-based Gesture Recognition Engine, which provides more than 50 pre-defined gestures and a software development kit (SDK) to easily create additional, customized gestures.

Product Availability

Freespace MotionEngine Lite is available today through a license with Hillcrest Labs. MotionEngine Lite runs on high-volume, low cost RF system-on-chips (SoCs), including TI's RF transceivers and TI's CC2541 [2] Bluetooth low energy and CC2533 [3] ZigBee RF4CE SoC solutions. The MotionEngine Lite software is provided to qualified customers for simplified integration into a variety of Smart TV, set-top box and PC products. In addition, Hillcrest's remote control OEM partners, including its preferred partners SMK Electronics and Universal Electronics, are enabled to design and manufacture motion remote controls with the new MotionEngine Lite software.

Additional information about Hillcrest's broad portfolio of motion control products is available at: www.HillcrestLabs.com [4]

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