Touchscreen Controller Certified on NVIDIA's Tegra 3 Reference Design for Tablets

Cypress Semiconductor today announced that NVIDIA has certified Cypress's new single-chip TrueTouch solution for its large touchscreens on the reference design for the NVIDIA Tegra 3 quad-core mobile processor. The reference design is a tablet form-factor device with a 10.1-inch screen targeted at upcoming high-performance Android 4.0 (Ice Cream Sandwich)-based tablets.

The world's first quad-core mobile processor for tablets and super phones, Tegra 3 delivers up to 5x the performance of the first dual-core processor, Tegra 2. Tegra 3 features a new patent-pending Variable SMP (vSMP) architecture with a fifth lower-power "companion" core, a PC-class CPU and 3X faster GPU with stereo 3D support to deliver the best combination of high performance and extended battery life.

The new, high-performance CY8CTMA884 TrueTouch™ solution is the first single-chip controller for large multitouch touchscreens up to 11.6 inches. The CY8CTMA884 family offers 60 sensing I/O channels with support for up to 884 nodes on the screen, more than any other single-chip solution. Additional sensing channels are essential for greater accuracy, linearity, support for smaller sized fingers and the ability to resolve multiple fingers close together. It provides 10-finger touch support, low power consumption, grip and palm rejection, high accuracy, and fast scan times.

"NVIDIA's Tegra 3 processor brings tablet performance to a new level," said Derek Richardson, Sr. Director of Cypress's Large Touchscreen Business Unit. "We're pleased that our TrueTouch single-chip solution has been certified for the Tegra 3 reference design, to help customers bring their new tablets to market quickly."

Bill Henry, Director of Tegra Platform Management at NVIDIA, added, "Touchscreen performance is a critical aspect of the user experience. The TrueTouch solution has the power and flexibility to complement Tegra 3's quad-core capabilities."

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