MediaTek Introduces Industry Leading Tablet SoC, MT8135

TAIWAN, Hsinchu – July 29, 2013 – MediaTek Inc., (2454: TT), a leading fabless semiconductor company for wireless communications and digital multimedia solutions, today announced its breakthrough MT8135 system-on-chip (SoC) for high-end tablets. The quad-core solution incorporates two high-performance ARM Cortex™-A15 and two ultra-efficient ARM Cortex™-A7 processors, and the latest GPU from Imagination Technologies, the PowerVR™ Series6. Complemented by a highly optimized ARM® big.LITTLE™ processing subsystem that allows for heterogeneous multi-processing, the resulting solution is primed to deliver premium user experiences. This includes the ability to seamlessly engage in a range of processor-intensive applications, including heavy web-downloading, hardcore gaming, high-quality video viewing and rigorous multitasking – all while maintaining the utmost power efficiency.

In line with its reputation for creating innovative, market-leading platform solutions, MediaTek has deployed an advanced scheduler algorithm, combined with adaptive thermal and interactive power management to maximize the performance and energy efficiency benefits of the ARM big.LITTLE™ architecture. This technology enables application software to access all of the processors in the big.LITTLE cluster simultaneously for a true heterogeneous experience. As the first company to enable heterogeneous multi-processing on a mobile SoC, MediaTek has uniquely positioned the MT8135 to support the next generation of tablet and mobile device designs.

“ARM big.LITTLE™ technology reduces processor energy consumption by up to 70 percent on common workloads, which is critical in the drive towards all-day battery life for mobile platforms,” said Noel Hurley, vice president, Strategy and Marketing, Processor Division, ARM. “We are pleased to see MediaTek’s MT8135 seizing on the opportunity offered by the big.LITTLE architecture to enable new services on a heterogeneous processing platform.”

“The move towards multi-tasking devices requires increased performance while creating greater power efficiency that can only be achieved through an optimized multi-core system approach. This means that multi-core processing capability is fast becoming a vital feature of mobile SoC solutions. The MT8135 is the first implementation of ARM’s big.LITTLE architecture to offer simultaneous heterogeneous multi-processing. As such, MediaTek is taking the lead to improve battery life in next-generation tablet and mobile device designs by providing more flexibility to match tasks with the right-size core for better computational, graphical and multimedia performance,” said Mike Demler, Senior Analyst with The Linley Group.

The MT8135 features a MediaTek-developed four-in-one connectivity combination that includes Wi-Fi, Bluetooth 4.0, GPS and FM, designed to bring highly integrated wireless technologies and expanded functionality to market-leading multimedia tablets. The MT8135 also supports Wi-Fi certified Miracast™ which makes multimedia content sharing between devices remarkably easier.

In addition, the tablet SoC boasts unprecedented graphics performance enabled by its PowerVR™ Series6 GPU from Imagination Technologies. “We are proud to have partnered with MediaTek on their latest generation of tablet SoCs” says Tony King-Smith, EVP of marketing, Imagination. “PowerVR™ Series6 GPUs build on Imagination’s success in mobile and embedded markets to deliver the industry’s highest performance and efficient solutions for graphics-and-compute GPUs. MediaTek is a key lead partner for Imagination and its PowerVR™ Series6 GPU cores, so we expect the MT8135 to set an important benchmark for high-end gaming, smooth UIs and advanced browser-based graphics-rich applications in smartphones, tablets and other mobile devices. Thanks to our PowerVR™ Series6 GPU, we believe the MT8135 will deliver five-times or more the GPU-compute-performance of the previous generation of tablet processors.”

“At MediaTek, our goal is to enable each user to take maximum advantage of his or her mobile device. The implementation and availability of the MT8135 brings an enjoyable multitasking experience to life without requiring users to sacrifice on quality or energy. As the leader in multi-core processing solutions, we are constantly optimizing these capabilities to bring them into the mainstream, so as to make them accessible to every user around the world,” said Joe Chen, GM of the Home Entertainment Business Unit at MediaTek.

The MT8135 is the latest SoC in MediaTek’s highly successful line of quad-core processors, which since its launch last December has given rise to more than 350 projects and over 150 mobile device models across the world. This latest solution, along with its comprehensive accompanying Reference Design, will like their predecessors fast become industry standards, particularly in the high-end tablet space.

Downloaded from Arrow.com.
About MediaTek

Since 1997, MediaTek has been a pioneering fabless semiconductor company and a market leader in cutting-edge systems-on-chip (SoC) for mobile devices, wireless networking, HDTV, DVD and Blu-ray. Our tightly-integrated, innovative chip designs help manufacturers optimize supply chains, reduce the development time of new products, and extend a competitive edge in crowded markets. Through Mediatek Labs, the company is also building a developer hub that will support device creation, application development, and services for the Internet of Things era. By building technologies that help connect individuals to the world around them, MediaTek is enabling people to expand their horizons and more easily achieve their goals. We believe anyone can achieve something amazing. And we believe they can do it every single day. We call this idea Everyday Genius and it drives everything we do. Visit mediatek.com for more information.