



Fact Sheet

Intel® Atom™ Processor Z6xx Optimized for Small Form-Factor, Portable Embedded Devices

April 11, 2011 — Intel Corporation announced the [Intel® Atom™ processor Z6xx](#) series, a highly optimized platform for low-power embedded designs enabling a new wave of small form-factor, portable solutions for industrial, medical and retail market segments.

With the best Intel® architecture performance-per-watt, the Intel Atom processor Z6xx series offers an integrated, power-optimized 2-D/3-D graphics engine and memory controller in an ultra-small package. The platform is best suited for a range of battery-capable embedded designs that require rich multimedia capabilities such as mobile clinical assistants, point-of-sale systems and industrial tablets.

The platform offers a choice of operating systems with support for [Windows 7*](#), [Windows Embedded Standard 7*](#) and [MeeGo*](#).

Enterprise Settings See Benefits of Portable Devices

Portable embedded devices are typically designed for more rugged environments to withstand the rougher treatment of workplace settings. The small form factor and portability of these devices helps to optimize work flow and increase efficiency. For example:

- ***Medical Mobile Clinical Assistants Enable Better Patient Care*** – Mobile clinical assistants used by medical staff while walking hospital floors means they can access and input patient data in real time. This aids in the elimination of paper records as well as the additional time required to input them after the patient has been treated. This can result in a reduction in medication errors and wait times as well as higher productivity and improved patient care.¹

Product Highlights

- Low-power Intel Atom microarchitecture manufactured on Intel's 45nm high-k metal gate technology
- Low thermal design power of 3.75W for longer battery life
- Integrated Intel® Graphics Media Accelerator 600 graphics engine
- Up to 1080p video decode and HDMI support for rich media and graphics
- Integrated memory controller and DDR2 support
- Intel® Hyper-Threading Technology
- Extended 7-year embedded lifecycle support

CONTACT: Krystal Temple
480-552-1760
krystal.temple@intel.com

Intel, Intel Atom and the Intel logo are trademarks of Intel Corporation in the United States and other countries.

* Other names and brands may be claimed as the property of others.

¹ [Mobile Point of Care Solutions case studies](#)