News Fact Sheet

Note to Editors: Multimedia is available at: www.intel.com/newsroom/idf

Intel® Atom™ SoC Processor for Cars, Internet Phones and Smart Grid Devices

INTEL DEVELOPER FORUM, San Francisco, Sept. 14, 2010 – Intel Corporation today launched the Intel® Atom™ processor E600 series. Formerly codenamed "Tunnel Creek," this Intel Atom processor-based system-on-chip (SoC) integrates additional capabilities onto the chip and features an open interconnect for easier pairing with a variety of input/output (I/O) devices. The SoC's flexibility will make it simpler to create unique design personalities and is ideal for applications such as in-car infotainment systems, Internet phones and smart grid devices.

Flexibility through Integration – The Intel Atom SoC open interconnect allows developers to more easily pair the processor with any PCI Express*-compliant device. The PCI Express interconnect also enables the custom creation of I/O hubs that can be paired with the SoC to fit applications such as automotive infotainment systems, smart grid devices, automation devices and factory floor industrial equipment. The integration of the Intel Atom processor core, memory controllers, graphics, audio and video encode/decode on a single chip translates to a simpler board design, making it easier and faster to develop embedded applications.

Scalability through Compatibility – Built on the unified Intel® Architecture, the SoC is designed to operate with legacy technology and future products, leading to design reuse and the protection of technology and infrastructure investment.

High Performance, Low Power, Lower Cost – The Intel Atom SoC achieves optimized power/performance at 5 watts and below, making the chip ideal for small-form factor or space-constrained applications. The compact, highly integrated design also reduces the total cost of material, while the scalability of the architecture lowers total cost of ownership.

Third-Party I/O Hub Vendors – A variety of interconnect chipsets customized for embedded applications are available from vendors including OKI Semiconductor* for in-vehicle infotainment and telecommunications terminals such as media phones, Realtek Semiconductor* for connected services gateways and medical devices, and STMicroelectronics* for in-vehicle infotainment systems. Other companion silicon offerings to help simplify design, regulate voltages and synchronize clocks are available from Dialog Semiconductor*and ROHM Co.*

Pricing and Availability – The processor series, as well as an Intel® Platform Controller Hub (PCH) EG20T that meets the design requirements of embedded segments including IVI, smart grid devices, media phones, industrial and home automation will be available to customers later this year. The Intel Atom processors range from $19-85 in quantities of 1,000, and the PCH is $9 in quantities of 1,000.

Intel® Atom™ Processor E600	Core Speed	Thermal Design Power	Temperature Range	Package
Intel® Atom™ processor E680T	1.6 GHz	3.9 watts	Industrial -40 to +85˚ C	676-ball FCBGA 22x22mm
Intel® Atom™ processor E680	1.6 GHz	3.9 watts	Commercial 0 to +70˚ C	676-ball FCBGA 22x22mm
Intel® Atom™ processor E660T	1.3 GHz	3.3 watts	Industrial -40 to +85˚ C	676-ball FCBGA 22x22mm
Intel® Atom™ processor E660	1.3 GHz	3.3 watts	Commercial 0 to +70˚ C	676-ball FCBGA 22x22mm
Intel® Atom™ processor E640T	1.0 GHz	3.3 watts	Industrial -40 to +85˚ C	676-ball FCBGA 22x22mm
Intel® Atom™ processor E640	1.0 GHz	3.3 watts	Commercial 0 to +70˚ C	676-ball FCBGA 22x22mm
Intel® Atom™ processor E620T	0.6 GHz	2.7 watts	Industrial -40 to +85˚ C	676-ball FCBGA 22x22mm
Intel® Atom™ processor E620	0.6 GHz	2.7 watts	Commercial 0 to +70˚ C	676-ball FCBGA 22x22mm

Product Name	Thermal Design Power	Temperature Range	Package
Intel® Platform Controller Hub EG20T	1.55 watts	Industrial -40 to +85˚ C	376-ball PBGA 23x23mm

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