

## New Product Announcement

### Latest Intel Atom 22nm Multi-Core SoC Processors Now at Mouser

**November 19, 2013** – [Mouser Electronics](http://www.mouser.com), Inc. is now stocking the latest [Intel](http://www.intel.com)® Atom™ 22nm 64-bit multi-core processors with USB 3.0 and graphics support, targeting high-performance low-power applications ranging from smartphones to intelligent embedded systems.

The new Intel Atom 22nm SoC processors available from Mouser Electronics are manufactured using Intel's Tri-Gate CMOS technology. This next generation Atom brings significant performance increases and improved energy efficiency compared to competing processors using planar transistor technology, all while delivering industry-leading performance-per-watt efficiency. Present 22nm Atom SoCs contain up to four 64-bit low-power Intel processor cores with each core attached to 56Kbytes of L1 cache; in addition, each pair of cores shares 1MBytes of L2 cache. Compared to current-generation Intel Atom processors, these new SoCs provide improvements of about 3x the peak CPU performance while using the same power draw, or the same CPU performance while using about 5x less power.

Existing 22nm Atom SoCs provide 2 Digital Display Interface (DDI) ports that enable eDP, DP, DVI, or HDMI, with audio supported on DP and HDMI. An on-chip graphics controller supports HW encode/decode acceleration for many video formats including H.264 and MPEG2. The on-chip image signal processor enables up to three MIPI CSI ports for camera interfaces. Other interfaces include PCI Express, SATA, USB 3.0/2.0/1.1, and various serial I/O.

The performance-per-watt improvements in this new generation of multi-core Atom processors enable significant improvements in performance and responsiveness for performance-hungry battery-powered applications including tablets, smartphones, and other low-power mobile devices.

Future variants of these new 22nm Atom processors will target entry-level laptops and desktop computers in innovative form factors, as well as provide superior energy efficiency and performance-per-watt for microservers, storage servers, entry- to mid-range routers, switches, and security appliances. To learn more, visit <http://www.mouser.com/new/Intel/intel-silvermont-processors/>.

With its broad product line and unsurpassed customer service, Mouser caters to design engineers and buyers by delivering What's Next in advanced technologies. Mouser offers customers 20 global support locations and stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is updated daily and searches more than 10 million products to locate over 4 million orderable part numbers available for easy online purchase. Mouser.com also houses an industry-first interactive catalog, data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

### **About Mouser Electronics**

Mouser Electronics, a subsidiary of TTI, Inc., is part of Warren Buffett's Berkshire Hathaway family of companies. Mouser is an award-winning, authorized semiconductor and electronic component distributor, focused on the rapid introduction of new products and technologies to electronic design engineers and buyers. Mouser.com features more than 4 million products online from more than 500 manufacturers. Mouser publishes multiple catalogs per year providing designers with up-to-date data on the components now available for the next generation of electronic devices. Mouser ships globally to over 400,000 customers in 170 countries from its 492,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit <http://www.mouser.com>.

### **About Intel**

Intel is the world's largest manufacturer of semiconductors and has established a heritage of innovation that continues to expand the reach and promise of computing while advancing the ways people work and live worldwide. Intel's entire processor portfolio provides design engineers with direct access to the industry's most advanced processors. Intel's industry-leading technologies are created using the most advanced foundry process technologies in the industry, producing unprecedented levels of performance and efficiency.

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