Intel Expands Intel Atom Processor-Based Platform to Home, Small Office Storage Device

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Intel Corporation today launched its first Intel Atom processor-based platform optimized for networked home and small office/home office (SOHO) storage devices.

The energy-efficient platform consists of the Intel Atom processor D410 single-core or D510 dual-core and the Intel 82801IR I/O Controller and delivers the processing performance and input/output (I/O) connectivity required to meet the throughput demands of leading storage vendors such as LaCie, LG Electronics, QNAP, Synology and Thecus.

Home server and SOHO network-attached storage (NAS) devices based on the new Intel Atom processor- based platform act as centralized hubs that organize, manage, protect and share documents, photos, videos and music throughout the home and small office. This makes it possible to keep digital content safe and available anytime, anywhere. "NAS systems have traditionally been found in businesses to manage, store and access data," said Seth Bobroff, general manager, Intel Data Center Group, Storage. "Today, households and small offices have an ever-increasing number of computers, laptops, netbooks and mobile phones that create and consume digital content. This advancement in mobility coupled with the explosive growth of data and media are creating the need for centralized, easy-to-use network storage solutions for the home and small office."

With an up to 50 percent power reduction and improved performance1 compared to Intel's previous generation of Intel Atom processors, the new Intel Atom processors paired with the Intel 82801IR I/O Controller enable vendors to deliver cost-effective, feature-rich and reliable systems that scale to support the demands of the evolving home and small office storage market.

Powered by the Intel Atom processor D510, LG's N4B2 NAS device performs fast "reads" and "writes" of large data files and allows up to 20 users to simultaneously stream high-definition-level (30Mbps) data within a local network.

The new platform features six PCI Express lanes, 12 USB 2.0 ports, a port multiplier function and eSATA ports that give OEMs the ability to add peripheral devices and expand storage capacity outside of the box. It also features hot plug capabilities for easy capacity upgrades and an integrated gigabit Ethernet MAC controller for improved data transfers to and from the home server or small office NAS device. The storage platform also offers the flexibility to support Microsoft Windows Home Server* and open source Linux operating systems. Additional information is available at intel.com/go/storage.

Intel Atom Processors in Embedded

In addition to the introduction of the storage platform, Intel also announced two single-core Intel Atom processors, the N450 and D410, and the first dual-core Intel Atom processor, the D510, for embedded devices. With 7-year lifecycle support to meet the performance-per-watt requirements of embedded devices, the Intel Atom processor-based embedded platform is ideal for small, energy-efficient designs for print imaging, digital security surveillance and industrial market segments.

The three processors are paired with an I/O controller designed for the

embedded market - the Intel 82801HM I/O Controller - for a 2-chip solution that provides rich I/O capabilities and adds flexibility via high-bandwidth interfaces, including PCI Express, PCI, SATA and USB 2.0 connectivity.

Source: Intel