



Intel® Corporation
2200 Mission College Blvd.
Santa Clara, CA 95054-1549

News Fact Sheet

Next-Generation Intel® Atom™ Processor-Based Storage Platform Powers Personal Cloud for Small Businesses and Consumers

Oct. 4, 2012 – Everyone grapples with how to manage ballooning amounts of data and digital content.

- Small businesses deal with daily increases in the number of files and e-mail they must store, along with the long-term need to retain data to comply with a range of industry regulations.
- Self-employed consultants commingling personal and professional projects on their devices must manage the risk of loss and the possibility of confidential data falling into the wrong hands.
- Across the board, we all create and purchase more content than ever before, including video, photos, music, movies, and e-books.

According to a 2012 report by the Aberdeen Group, SMB storage volumes are increasing by 30 percent annually. Meanwhile, Gartner predicts that the average household will require at least 3.3 terabytes of storage capacity to hold their content by 2016, compared with 464 gigabytes in 2011. That's a sevenfold increase.

To help users better organize, protect and share their data, Intel Corporation today announced its next-generation Intel® Atom™ processor-based storage solution (formerly codenamed "Milstead"). Powered by Intel® Atom™ processor D2550 and Intel® Atom™ processor D2500, this solution combines impressive multimedia capabilities, energy efficiency and excellent performance.

The Intel Atom processor has long enabled storage solutions that support automated backup of all devices on a network, and remote access to files anytime, anywhere, on any connected device. However, the combination of new multimedia capabilities and increased performance will optimize the storage experience, allowing users to stream multiple high-resolution videos simultaneously and extend other multimedia activities to a personal cloud. In addition, this solution can serve as a video surveillance storage and playback station.

Companies such as Asustor, QNAP and Thecus are launching storage solutions today, with others coming onboard in the near future. The software ecosystem gets a boost with support from companies such as Mpstor and Dane-Elec that have developed an optimized storage stack for small-business customers.

Benefits for Business

- **Backup and restore.** Centralized backup of all connected devices helps assure businesses that their data is protected. Remote replication can provide additional copies of data, for seamless recovery in the event of a breach, theft or loss of a device, a hard-drive failure or other disaster.

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- **Anytime, anywhere access to a personal cloud.** Employees can access files from work, home or on the road on any connected device — Ultrabook™, PC, laptop, tablet or smartphone. For businesses that want to maintain physical control of their files, the solution allows Web-based access to data stored on the device. Businesses wanting a more comprehensive disaster recovery solution can also backup to the public cloud services integrated into specific manufacturers' product offerings. This solution supports multiple file transfer protocols to enable sharing among computers running different OSs, including Microsoft Windows* and Linux*.
- **Video surveillance.** Businesses can attach two monitors to a single storage device and view up to four IP camera feeds with greater clarity than previously available.
- **Data protection.** Since security is always a critical concern, this solution supports world-class security from McAfee. Support for McAfee AV SDK* and VirusScan Enterprise for Linux* helps ensure that data is safe from viruses and malware.
- **Smart investment.** Small businesses can achieve cost savings even as their storage requirements continue to grow.

The Intel® Atom™ processor D2550 and D2500 solutions are ideal for:

- Businesses with multiple locations that need on-site solutions for storing and accessing data locally as well as synchronizing data across sites so that every user has access to the most up-to-date information. This includes medical and legal offices, retailers, and accounting and financial services firms.
- Businesses that require video surveillance to help ensure the safety of their customers and employees.
- Businesses that require fast, efficient and secure access to extremely large files — by employees within the office and on the road, contractors working remotely, and clients and business partners around the world.

Benefits for Consumers

- **Content sharing.** The solution can serve as a centralized media platform for storing movies, music, video games and other content that can then be played on a range of connected devices.
- **Video playback.** Built-in hardware acceleration allows consumers to connect HDMI-ready displays and watch 1080p HD video.
- **Personal cloud.** Delivers a personal cloud that enables family and friends to access files remotely using a variety of connected devices, including Ultrabooks™, smartphones, tablets and laptops.
- **Backup.** Protects photo and content archives with the ability to restore files in case of a PC hard-drive failure or a lost or stolen device.

Summary of Capabilities

The Intel Atom processor-based storage solution creates a foundation for the personal cloud with:

- Built-in hardware acceleration for HD content allows for video surveillance and playback as well as media playback.
- Support for multiple OSs, including Microsoft Windows and Linux, enables cross-platform file sharing.

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- Support for software-based RAID safeguards data so that files are recoverable even if a hard-drive fails.
- Scalable I/O connectivity supports four to six SATA drives with hot-plug capability of up to 14 USB ports as storage requirements increase.
- Integrated support for digital display and dual display can lower bill of material (BOM) costs and HDMI and/or VGA support.
- Up to 4 GB of main memory for fast response time.

About Intel

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CONTACT: Radoslaw Walczyk
Intel Corporation
408-765-0012
radoslaw.walczyk@intel.com