

Next-gen MFPs Speed Workplace Transformation

Intel® Atom™ processors power new performance and productivity from Toshiba* multifunction printers.

“Print and document management solutions that once needed to be implemented separately to MFPs are now integrated into the hardware device to provide a richly featured, cost-efficient tool designed for today’s workplace.¹”

International Data Corporation (IDC)

Today’s businesses continue to deal with the new normal of an unprecedented onslaught of information. The need for workforce productivity is more urgent than ever. And digital transformation of the workplace environment is in progress. Organizations are looking to save time and reduce waste by replacing paper with electronic files that can be more easily stored and accessed, whether at the desktop or in the cloud. They need to support the increasing mobility of their employees and the proliferation of mobile devices. And they are seeking technology solutions that streamline daily tasks while being easy to use.

Computing and connectivity advances have made possible a new world of intelligent office devices that transform traditional “peripherals” and bring them together into integrated systems that increase efficiency and make it easier for workers to stay productive. One area that is evolving to allow significant workflow improvement is document management—printing, scanning, copying, and storing.

Multifunction Printers for the New Workplace

Printers are changing to meet changing workplace needs and take their place in an increasingly digital environment. Today’s multifunction printers (MFPs) have come a long way from their predecessors that allowed one device to print, fax, copy, and scan. Now MFPs are becoming smarter devices that offer much more, including:

- Intuitive user interfaces
- Programmable setup for custom functions
- Easy integration with enterprise applications and cloud storage
- Printing from smartphones and other mobile devices
- Flexibility for customers to load and run embedded applications that support tasks specific to their business
- Usage tracking and other functions that help businesses and dealers manage the printer fleet

To enable these new functions, MFP manufacturers are building more intelligence and computing capability than ever into their machines and fueling their printer engines with more powerful processors. Toshiba* and Intel are working together to drive this evolution and deliver smarter, higher performing MFPs.

New Intel® technology-powered MFPs deliver performance that drives benefits like faster print job processing that keeps workers productive and saves them time. It enables faster optical character recognition (OCR) that speeds up scanning image

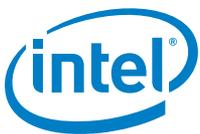
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capture and output. And when scanned information is sent to the user's computer or to the cloud, it allows faster transit time and easier document filing and tracking. More compute power also opens up many more possibilities for embedded applications, integration with enterprise software like document management systems and email, and the ability to perform multiple tasks at once.

Toshiba's Next Generation

Toshiba is introducing a new lineup of e-STUDIO* MFPs that includes a range of features to boost workplace productivity plus flexible options designed to match the way today's employees work. The printer engines are powered by the Intel® Atom™ processor E3800 product family, with dual-core performance to support faster printing and scanning, along with better multi-tasking and added software capabilities. Along with a completely revamped external design including a dual-scan document feeder, these new printers run on Toshiba's new e-BRIDGE Next* platform, which aims to better connect printers and people, integrate workflows, and simplify the user experience. Along with higher performance, the new MFPs deliver energy efficiency benefits, with lower power consumption and improved wake-up time (helped by the low-power Intel Atom processor), Energy Star* compliance, and an EPEAT* Gold rating.



New features include:

- New user interface with tablet-like swipe, pinch, and zoom capability plus user customization
- Improved image quality, including support for 1200 x 1200 dpi print resolution
- Optional Multi-station Printing allows users to retrieve documents from any MFP
- Embedded OCR enables scanned documents to be converted to a searchable PDF or other file formats

Intel Atom processor features and benefits

The Intel Atom processor E3800 product family is the first system-on-chip (SoC) family designed for intelligent systems.¹ These processors deliver outstanding compute, graphics, and media performance while operating in an extended range of thermal conditions. Based on the Silvermont microarchitecture, they use Intel's industry-leading 22nm process technology with 3-D tri-gate transistors,

which deliver significant improvements in computational performance and energy efficiency.² They are available in single, dual and quad core CPU configurations.

Highlights of the product family include high I/O connectivity, integrated memory controller, virtualization, error correcting code (ECC), and built-in security capabilities within a thermal design power (TDP) range of 5W to 10W.³

Toshiba's new e-STUDIO MFPs help companies save time and increase productivity to meet the demands of today's office environment. With the performance and low-power features of the Intel Atom processor E3800 product family, these MFPs support faster document capture and output, improved energy efficiency, and the use of more complex applications that integrate with document management workflows.

For more information, visit:

<http://www.intel.com/content/www/us/en/internet-of-things/overview.html>

References

¹ IDC white paper: Cost-Efficient Print and Document Management Through Smart MFPs, September 2015

² Claim based on comparison with previous-generation microarchitectures for Intel® Atom™ processors.

³ Thermal design power range claim based on data contained in the document Intel® Atom™ Processor E3800 Product Family Thermal Design Guide published October 2013. See <http://www.intel.com/content/www/us/en/intelligent-systems/bay-trail/atom-e3800-m-d-i-soc-thermal-design-guide.html> for more details.

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