

Dear customer,

This eNews issue is provided to you because of your previous interest in Data I/O programming solutions. It contains information on new programming solutions recently announced by Data I/O and information regarding the latest device support releases for the Sprint programming family.

More detail in each of the subjects below can be found at [www.dataio.com](http://www.dataio.com).

**Read online in this issue:**

- \_New FlashCore II Programming Technology
- \_New Flash Media Duplication Solution
- \_The Importance of Cell Margin Verification
- \_Recent platform updates:
  - Sprint Version C/2007
  - FlashCore Version C/2007
  - UniFam Version 8.6

## **PRODUCT HIGHLIGHTS**

### New FlashCore II Programming Technology

This new generation hardware and software combination significantly extends the company's advanced architectures and programming solutions for the FlashCORE family of programming systems.

FlashCORE II provides a continued support path for the latest devices and also protects our customers' original investment in our automated solutions. All new systems now include the FlashCORE II technology. Field upgrade kits are also available for existing automated system installations to include the FlashCORE II technology.

Data I/O's Flash-optimized technology has set the standard for programming speeds as designed by the semiconductor manufacturers. FlashCORE II represents a significant extension of the previous generation in terms of current and future breadth of Flash device support.

Contact your Data I/O representative and get more information

<http://www.dataio.com/contact/>

### New Flash Media Duplication Solution

With Flash Media Duplicator, a new application extension of FLX500 desktop automation equipment, Data I/O specifically addresses the rapidly growing market for flash card duplication. Flash Media Duplicator is a solution designed to support flash media that uses the SD and MMC file formats for managed NAND, including small format portable media cards and BGA package versions of this technology. Flash Media Duplicator is for OEM users of flash media, either in embedded applications or for duplication of in-box flash cards.

Manufacturers and OEM integrators are finding new and creative ways to deliver content inside or

alongside their products but have had no efficient means of duplicating cards other than racks of plug-in or cartridge based manual copy boxes.

Flash Media Duplicator delivers a high level of production control through automation and system integration that is not attainable through existing manual card duplication products, streamlining production with stand-alone operation or networked with a company's ERP system to remove process decisions and set-up from the shop floor. Copy protection management features permit secure duplication of valuable content and adds value by protecting IP. A unique duplication engine is integrated in Data I/O's proven robotics system to provide unparalleled write speeds of over 8.5MB/sec and automated throughput of up to 750 cards per hour, replacing today's costly, slow and error prone manual processes.

For more information on FLX500 system please see  
Datasheet Flash Media Duplicator (pdf)

## APPLICATION NEWS

### The Importance of Cell Margin Verification

Cell margin verification is a test capability designed into certain families of Flash-based microcontroller devices from NEC, Freescale, Infineon and Texas Instruments. These devices are typically used for mission-critical applications in the automotive, medical equipment, industrial and aerospace industries. Cell margin verification ensures that devices are programmed as specified and data-retention is ensured by the manufacturer.

After every device is programmed and cell margin is verified, the result of the verification is saved into a log file on Data I/O's automated programming systems (customers can also access the log file to analyze the root cause of device failures).

Even though flash-based memory technologies are quite reliable, quality of programming ensure data retention of a device due to hardware and environmental conditions. A marginally programmed semiconductor device can cause data loss or change data, unexpectedly causing a system failure. This exposes our customers to unnecessary costs, risks and liabilities via downstream system failures and recalls.

For memory and microcontroller devices that don't support cell margin verification feature, Data I/O's programming platforms provide the necessary tools to verify each device after programming it.

For more information please read Press Release  
Cell Margin Verification"

Contact your Data I/O representative and get more  
<http://www.dataio.com/contact/>

## UPDATE NEWS

### Platform Updates Released

Several programming platform updates have recently been released to customers with annual support agreements. Summary highlights of these many releases are noted here. One year of device updates (fixes and new releases) is included in the programming system purchase price. The service is renewable on an annual contract basis.

Please contact your Data I/O representative if you would like to renew your annual support agreement at <http://www.dataio.com/contact/>

#### ► **Sprint Version C/2007**

All annual support contract holders will receive the Version C/2007 update kit on CD. 212 new logic, memory, and microcontroller devices have been added from AMD, AMIC,

Altera, Atmel, Cygnal, Cypress, Freescale, Fujitsu, Holtek, Intel, Lattice, Macronix, Microchip, NEC, Philips, Ramtron, Renesas, ST Micro, TI, Xilinx, and Winbond. In addition to new device support, the C/2007 update kit includes performance enhancements for several devices previously released.

Annual contract holders can download individual algorithms from the website between update kit releases (since the release of B/2007).

► **FlashCore Version C/2007**

The latest release of updates for the FlashCore family includes approximately 250 new memory and microcontroller devices.

<http://www.dataio.com/device/>

► **UniFamily Version 8.6**

Also shipping in Q4 is UniFam V8.6. There are approximately 20 new devices added in this release. Please note that the final list of device adds is determined by successfully passing the QC test phase. UniFam customers are again encouraged to migrate to the FlashCore platform if possible or to consider the MSM upgrade. So many devices have been added to this platform over the years that we are nearing the point where new devices can no longer be added (due to space limitations).

<http://www.dataio.com/device/>

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