

To: [Vorname] [Name]
[Email]

Dear [Vorname] [Name],

This periodically published 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.

Read in this issue:

- _New Extra Large Format (XLF) ProLINE RoadRunner announced
- _Special data handling software (serial number server) now supports the FLX500
- _Flash Boost upgrade provides 300%+ performance gains for NAND programming/verifying operations
- _How to get *TechFlash* news on new device support releases

Get the full eNews [here](#).

Yours sincerely,
Data I/O News-Team

NEWS HIGHLIGHTS

► **Extra Large Format ProLINE-RoadRunner XLF for Automotive Applications**

The world's only **Just-In-Time** programming solution has been extended to support large geometry devices **up to 32 mm, in 44 mm tape**. Driven by high pin count packages, device geometries have grown predominantly for microcontrollers.



By way of direct attachment to the SMT placement machine, the [ProLINE-RoadRunner XLF](#) In-Line programming system is optimal for lean manufacturing and six sigma environments. Code changes can be delivered directly to the system on the product assembly line such that re-work of programmed device inventory is minimized.

For more information and product specifications, please see www.dataio.com in the Americas, www.dataio.de in Europe and www.dataio.cn in Asia.

► **Serial Number Server Now Supported on FLX500 Automated Desktop System**

Data I/O's Serial Number Server (SNS) provides the complete solution for programming unique numbers or other dynamic data from your external source file during the production process. Examples of unique data include serial numbers, MAC addresses, and product ID codes.

File formatting and conversion utilities are included in the software as is byte swap support and post-programming reporting. The dynamic data are only included in successfully programmed devices, and the server tracks used and unused numbers.

For more information on the Serial Number Service application software or the FLX500, please contact your local Data I/O sales representative under <http://www.dataio.com/contact/>.

► **Flash Boost Provides 3X Speed Gains for 8- and 16-bit NAND Devices**

As device densities and image file sizes continue to expand quickly, so does the need to maintain and improve programming system performance. Because of the field configurability of the FlashCORE programming technology (hardware), programming and verifying times for high density NAND devices can be easily implemented by simply loading the Flash Boost algorithms.

Please see the table below for examples of the significant performance gains delivered by Flash Boost. This level of performance improvement can have an immediate and **dramatic impact on product assembling efficiency.**

Device Name	With FlashCORE Boost		Without FlashCORE Boost		% Improvement
	Program	Verify	Program	Verify	
Samsung, K9F5608R0D-J, FBGA-63	15,4	4,3	38	33,5	363%
Toshiba, TY9000A410AMBF, FBGA-149	85,87	20,43	147,81	138,81	270%
Toshiba, TY80009000CMGF, FBGA-149	27,52	9,61	60,11	77,97	372%
STM, NAND99R3M0A-ZBA-E, TFBGA-149	35,15	8,86	69,07	72,15	321%
Hynix, HYG0SEG0MF1-P, FBGA-149	27,25	8,6	56,83	67,37	346%
STM, NAND01GW3M2B, TFBGA-137	60	18,6	128	148	351%

For more information on the Flash Boost algorithms or upgrading to FlashCORE II, please contact your local Data I/O sales representative under <http://www.dataio.com/contact/>.

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