

Dear customer,

The purpose of this eNewsletter is to provide you with the latest information on Data I/O's Flash Boost technology – **producing significant performance gains!** If your system uses the FlashCORE programming technology and you have the annual support agreement, your NAND programming / verifying times can improve by as much as **300%-400%**. Please see details below.

This past year, Data I/O extended the capabilities of its FlashCORE platforms by delivering improved device handling capabilities, improved vision and inspection systems, applications software, improved actuation technology and extended new device support. This announcement is about **performance gains for NAND devices** and **renewing your APS agreement**.

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Yours sincerely,
Data I/O News-Team

HIGHLIGHT NEWS

Data I/O presents new Flash Boost Technology

The latest hardware and software extension for programming architecture FlashCORE II significantly enhances programming speed for NAND Flash based devices **by over more than 400%**.

Flash Boost delivers the fastest possible speed in total NAND programming times (programming and verifying)

The FPGA based co-processor FlashCORE II guarantees substantial speed effects because of generating programming sequences by the hardware while writing and verifying devices. This new capability delivers high speed programming times for NAND Flash, serial Flash device families, and Flash media.

Please review the table below for several examples of the effect of this Flash Boost technology – **only available on FlashCORE II platforms.**

Device: Samsung K9F1208U0C (512 Mbit, TSOP48)

	<i>Without Boost-Technology</i>	<i>With Boost-Technology</i>	<i>Boost Advantage</i>
<i>Program</i>	59,2s	29,2s	
<i>Verify</i>	63,9s	10,1s	
<i>TOTAL</i>	123,1s	39,3s	313%

Device: Samsung K9T1G08U0M-Y (1 Gbit, TSOP48)

	<i>Without Boost-Technology</i>	<i>With Boost-Technology</i>	<i>Boost Advantage</i>
<i>Program</i>	121,6s	62,9s	
<i>Verify</i>	141,2s	19,6s	
<i>TOTAL</i>	262,8s	82,5s	318%

Device: Samsung K5D1G13DCM-FC (1 Gbit, FBGA-137)

	<i>Without Boost-Technology</i>	<i>With Boost-Technology</i>	<i>Boost Advantage</i>
<i>Program</i>	129,2s	66,3s	
<i>Verify</i>	141,9s	18,4s	
<i>TOTAL</i>	271,1s	84,7s	320%

Device: Samsung K9F2G08U0M-P (2 Gbit, TSOP48)

	<i>Without Boost-Technology</i>	<i>With Boost-Technology</i>	<i>Boost Advantage</i>
<i>Program</i>	62,0s	18,6s	
<i>Verify</i>	89,3s	13,5s	
<i>TOTAL</i>	151,3s	32,1s	470%

System Requirements:

NAND Flash Boost runs only on FlashCORE II programming systems including

- FLX500: All systems manufactured since July 2007
- ProLINE Road Runner
 - All systems manufactured since July 2007
 - Systems manufactured between Q1 2003 and Q3 2007 can be hardware upgraded
- PS288/PS588
 - All systems manufactured since July 2007
 - Systems manufactured between Q2 2004 and Q3 2007 can be hardware upgraded
- FlashPAK II
 - All systems manufactured since Q3 2007
 - FlashPAK I systems can not run the Flash Boost technology and can not be field upgraded

Please contact your local Data I/O representative or contact the company by email at sales@dataio.com if you would like more information about upgrading to FlashCORE II

Annual Programmer Support (APS) Agreement

Twelve months of system hardware and software support is included in the purchase of your programming solution. APS is an annual renewable program to continue that support. APS is the delivery vehicle for also providing system improvements such as these NAND performance gains described above.

If your first year of support of subsequent APS agreement has ended, contact the company today with your system serial number to receive a quotation for renewing your APS support.

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