Data i O

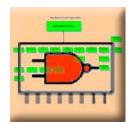
Application Software Catalog



page 3

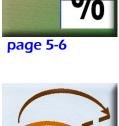
Data Mapper

A standalone utility for merging multiple data files into a single programming image.



page 4







page 9-10



page 13-14

Enhanced Statistical Process Control

Adds customer-selectable syntax specifications to job logs for export to external statistical software tools.

Enhanced Yield Programming Controls

Customer-selected controls and limits for programming operation retries to improve firstpass programming yields.

Version Control

A configuration with FlashCORE programmers (currently for PS Systems) that ensures programming repeatability by managing firmware versions and software (TL) versions.



page 7-8



page 11-12



page 15-16



A library of utilities for managing Bad Blocks in NAND memory devices.

Serial Number Server

A SW utility that manages unique serial numbers for devices during manual or automated programming via a network connection to a server.

Remote Monitoring

Provides monitoring of RoadRunner[™] and PS[™] Programming systems anywhere in the world on the same network view statistics and system utilization.

Tape Label Generator

Uses TaskLink™ (TL) to create text and graphic labels for programmed devices output to reels.



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Features

- Merge multiple files into one image
- Use with any device programmer
- Handle any combination of multiple file formats
- Overlapping address spaces
- Automatic address adjustment or manually specify locations
- Re-map pre-existing data files into new layouts
- Supports multiple chip package usage
- Save layouts as projects
- Specify target file size and fill byte value
- Add and delete files
- Error checking
- Automatic file type detection
- Configurable byte swap
- Specify output file name
- Runs on Win95 through WinXP
- Intuitive MS Windows graphical user interface
- Drag and Drop

Supported File Formats

Formatted BinaryAbsolute BinaryHex Space STXHex Percent STXHex ApostropheHex Comma STXHex Space SOHHex Percent SOHHex SMSHex Comma SOHMotorola EXORciserIntel INTELLECMotorola EXORMAXIntel MCS 86Motorola 32 bitIntel Hex 32

Outstanding Value

With Data I/O we understand the challenges inherent in moving new products from design into NPI and production. DataMapper is one of several software tools that enhance the performance, efficiency, and control over device programming processes across the supply chain.

Powerful Solution for Advanced Semiconductor Applications

Today's advanced semiconductor applications are typically created by teams of engineers and/or require data from multiple sources. An application may have boot code, system software, application programs, and multiple data files. Each of these may be developed and maintained separately, and file formats may vary.

As the product moves into prototype production, these inputs must be merged into a single data file to create a programming image for the target device. DataMapper is a convenient time-saving tool that converts of different file formats and maps content into address space layouts.

Easily Accessible from TaskLink for Windows™

TaskLink users will find DataMapper is accessible from the TL-Win dropdown menus, enhancing the convenience. DataMapper makes it possible to spend more time on development and production activities and less time merging files.

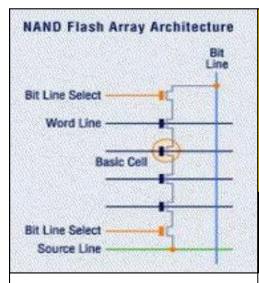
Soottlik.bin Drivertlik.hex	1560		1559	36	E	doubt an india and	The second second
Drivertik, hex					100	(16) Absolute Sir	C:Seek11
	41216	8192	49407	16		(99) Intel Hex 3;	C:\Seek1\
HuaPLhex	70912	\$7344	120255	35		(99) Intel Nex 30	C:\Seek1\
AppAPE.hex	37988	327680	365567	35		(99) Intel Hex 31	C:\Seeks1
Diags.hes	131572	293216	\$24287	28		(99) Intel Hex 31	C:\Siesk11
Hain/cp.hes	458752	524298	963039	36		(II2) Motorola EX	C:\Seek11
Allow address overlap TaskLink Compatibility Make subjuit file compa Make subjuit file compa			1000	riek 11/Sleek 1_v0.1 1048576	1491.3	. Over	Browse.

Ordering Information

To purchase the Data I/O DataMapper, please contact your Data I/O Sales representative.

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Germany:	Data I/O GmbH Graefelfing, Germany +49.89.858.580 <u>http://www.dataio.de</u>	Hong Kong:	Data I/O Hong Kong Wanchai, Hong Kong 852-2558-1533

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NAND Flash Bad-Block Schemes

Software Option

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Bad-Block Schemes Included

1000 Logical Block Skip	4 Block Skip
File System Map	GSL Skip
MODE2	MODE3
None	Pantech BBM
Qualcomm MSM6100	MSM6100 EFS
Reserved Block Area	Samsung GBBM
SAM GBBM DWSwap	Samsung WinCE
Skip Bad-Blocks	Thales Navigation
Unistore V1.0	Unistore V1.8

Requirements

- TaskLink 5.40 or newer
- Algorithms release 2004C or newer
- Data I/O FlashCORE[™] family programmers (PS Series, FlashPAK RoadRunner)

Information

See Data I/O's extensive NAND Flash device information, research articles, application notes, vendor links, and more:

http://www.dataio.com/NAND/

NAND Flash Bad-Block Schemes

Data I/O's NAND Flash Bad-Block Schemes software option is for engineers and systems designers implementing NAND Flash memories into their electronic products. New products increasingly use NAND Flash memories instead of NOR Flash memories due to the large cost advantage. While NOR memories are error-free, NAND memories require bad-blocks to be detected and managed while writing to the device. About two dozen methods are commonly used to manage bad-blocks today. The "Skip Bad-Blocks" scheme is included with TaskLink[™]. The NAND Flash Bad-Block Schemes software option package contains numerous new sophisticated schemes. Data I/O offers this software option to help designers more quickly implement products on NAND Flash memories with proven bad-block handling methods.

Outstanding Value

With Data I/O, you benefit from thirty plus years' experience designing and manufacturing programming solutions. Only Data I/O provides the complete solution for your device programming needs.

Ordering Information

To purchase the NAND Flash Bad-Block Schemes software option, contact your Data I/O Sales representative.

Data I/O can develop a new Bad-Block scheme for you. For more information, contact your Data I/O Sales representative.

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Benefits

- Full traceability records
- All relevant data recorded (see next page for list of fields)
- Automated job log file is created as devices are programmed on the automated handler system
- Handles serial number data
- Semi-colon delimited fields are readable by popular SPC tools
- Also readable with Microsoft's Excel and Access to build your own solution

Order Information Enhanced SPC SW

2004 Data I/O Corporation Draft rev 2005-05-18

Enhanced Statistical Process Control Logging Software

1-800-3-DATAIO www.dataio.com



Enhanced SPC Software is for applications involving programming ICs for use with Data I/O automated handling systems.

Enhanced SPC assumes an interrupt-driven process that adds information to selected "fields" in the automated job log.

Enhanced SPC provides job log extensions and simple creation of SPC databases; the supplied fields allow precise tracking of machine behaviors (e.g., uptime, downtime, yields, and throughput).

This software is not subject to Data I/O's standard product warranty. Technical support is provided on a limited basis.

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Examples shown are in Microsoft Access format

eStamp Vame kage onPRJ ordID temStatus	
ice kage on PRJ ordID remStatus	
onPRJ ordID remStatus	
onPRJ ordID remStatus	
iemStatus	
iemStatus	┢
temMSG	
nArealD	
nPosID	
iceStatus	
ised	
realD	
osID	
icesInspected	
ectionPassed	
ectionQuality	
icesInsertedSocket	
ketYield	
grammerYield	
gSysYield	
icesProcessedMarker	
icesMarked	
icesInputSystem	
emYield	
emThroughputExcWait	
emTotalThroughputIncWait	
icesOutputSystem	
hineID	

Enhanced Statistical Process Control Logging Software

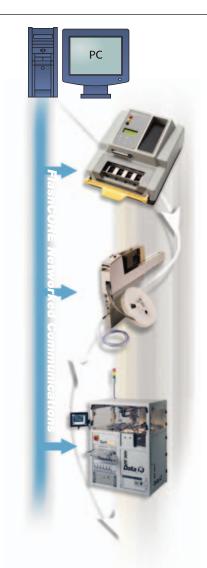
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╪┼┲	RecordID	Meaning
4 [0	Not running
	1	Messagebox opened
	2	Messagebox closed (acknowledged by User)
ΝΓ	3	Production Mode
ΗN	、 、	
	Status System	Meaning
1 I C	1	System started
4 I L	2	Entered Setup-Screen
	3	Entered System-Screen
	4	Entered Run-Screen
1 [5	Clicked on ,Run'
- [6	Clicked on ,Finish'
- [7	Shutdown System
$\left\{ \left \right \right\}$	System MSG	Meaning
	101	Initialize Run Message
	102	Load Devices Message
1 [103	Job Done Message
1 [104	Warning Message
- [
$\downarrow \mid \lceil$	201	Door Open Message
	202	No Programmers available
1 [203	Initialization Error
- [204	Timeout Message
」│「	301	No Air supply
	302	Motion Error
1 F	303	Error Severity 4
┘│┞	304	Error Severity 3
	305	Error Severity 2
	306	Error Severity 1

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At a Glance:

- A dedicated server for managing dynamic data programming into NOR Flash memory or microcontroller devices
- Automates production of serialized components during the manufacturing process
- Programming systems supported:
 - ProLine Roadrunner
 - PS Series FlashCORE Systems
- FlashPAK
- Up to 12 FlashCORE client programmers can be served from one Serial Number Server installation
- Formatter tool converts any binary file to .csv format for serving
- Byte Swap Support (16- or 32-bit)
- Serialization job setup within TaskLink™ for Windows
- Password protection on configuration
 setup
- Used serial numbers can be captured for validation and reporting purposes

Serial Number Server

FlashCORE[™] Systems

1-800-3-DATAIO www.dataio.com

Data j O

VOLUME PROGRAMMING OF MAC ADDRESSES, PRODUCT IDENTIFICATION CODES, SERIAL NUMBERS

Consumer electronics, automotive applications, and industrial products are increasingly configured with one or more internal identification numbers to enhance product communications, upgrading, and maintenance over the life of the product. These might be serial numbers, product ID, Vendor ID, configuration ID or other manufacturer's information that is unique to a particular item.

The Serial Number Server was designed for Set-top box (STB) manufacturers, volume producers of Cell phones, PDAs, Network peripherals, or any electronic products requiring device serialization and tracking of ID or serial numbers.

AUTOMATED SERIALIZATION OF PROGRAMMABLE DEVICES

The Data I/O Serial Number Server, when combined with existing Flash-CORE programming systems, provides a complete solution that manages automatic programming of unique numbers or other dynamic data from your external source file during the production programming process. Serial Number Server is integrated with FlashCORE programming firmware, assuring that numbers are assigned only to successfully programmed devices, and that each number in the source file is assigned only once. In addition, the server tracks both served and unused serial numbers, so you always know precise status of device serialization.

FLEXIBLE CONFIGURATION

A low volume FlashPAK user may run the Server on the local PC along with TaskLink for Windows. The Server may also be installed on a network host to serve one or more production programming systems, or installed directly on the AH400/AH500 SW on the PS Series offline production systems. Site licensing allows multiple installations of the server within one plant, for even greater flexibility.

At time of programming task creation in TaskLink for Windows, a serialization flag is set to indicate that serialization is required. During the programming process the FlashCORE system makes a request to the server for a serial number. The server responds by providing one or more unique serial numbers to each device programmed on that programmer, based on your preset parameters.

Up to 8 serial numbers or other identification numbers of varied lengths may be programmed into each device, with a maximum length of 1800 bytes for all serial number data per device.

Byte Swap programming option is available for either 16bit or 32bit byte swap.

Access to the Byte Swap feature in the configuration interface for Serial Number Server may be controlled via passwords using the Administrator Mode.

FILE FORMATTING TOOL

Virtually any binary file of serial or ID numbers may be converted to a .csv file format for use in programming. The Serial Number File Formatter, provided with the server, translates your binary serial number source file to the .csv file format, ready for production use.



Specifications

- Compatible for use with your own serial number range or use a 3rd party provider file
- Compatible with Nagravision (Echostar) .DN3 file specifications
- Supports programming of paired key serial numbers in accordance with major CA (Conditional Access) technology providers and **Set Top Box** manufacturers
- All user inputs on the screens are stored for capture purposes: source file name, destination file name, number of SNs per device, byte offset, and serial number length of each serial number.
- View the total number of devices in a source file and how many remaining before the server starts.
- Displays a running count of available serial numbers when the Server is running
- Supports Device Labeling (PS588 System)
- Operating Systems: Windows 98, Windows 2000, XP, Windows NT

Serial Number Server

FlashCORE[™] Systems

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Data i 🗸

Serial Number File Formatter verifies that the binary source file is an integer multiple of the SN Length (Decimal, in Bytes) that you specify. Then, beginning with the Starting SN index (Decimal) and going to the Ending SN index(Decimal) that you specify, it creates a CSV file with incrementing indices, serial numbers equal to the specified SN Length (Decimal, in Bytes) offset by the specified Byte Offset (Hexadecimal).

FLEXIBLE LICENSING

A combination of server site license plus client licenses for each Flash-CORE system allows you to install unlimited instances of the server at the licensed site. FlashCORE systems across your network can be licensed clients of that central server. As an alternative, you may license multiple geographical sites to run the server for local management and control.

For design or low volume production use with FlashPAK, a dedicated FlashPAK server and client license provide an economical way to serialize devices using one FlashPAK system.

11-le	Number Formatter
Help	
Source File to Transl	ate: C:\Dataio\SNFormatter\TTPK0000.DN3 Browse
Destination File:	C:\Dataio\SNFormatter\TTPK0000.csv Browse
Starti Serial Number Layout Byte Off (Hexadeo SN1:	Quantity of SNs per device: 1
Iransl	
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User Benefits

- Full traceability records available to the user when Traceability software is also installed
- Number of programming retries is user definable
- Minimizes failed devices
- Improves yields
- Avoids unnecessary rejects

Order Information PS-Failed Program SW

This software is not subject to Data I/O's standard product warranty. Technical support is provided on a limited basis.

Enhanced Yield Programming Controls

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Devices Failing Continuity are Retried

Standard PS System logic extracts devices from the input media (tray, tape, or tube) and precises them into the programmer sockets to transfer the data pattern into the device. With Enhanced Yield Programming Software, if the initial continuity check fails, the device is retried once in another socket.

System Learns to Avoid Bad Sockets

Enhanced Yield Software also tracks which sockets on which programmer sites are reporting failures and "learns" to avoid those sockets until changed or serviced.

Enhanced Reprogramming Software

provides PS Systems customers with the capability to extend the default PS System logic to maximize device programming yields. Users can select the number of programming attempts.

Allows definition of four limits

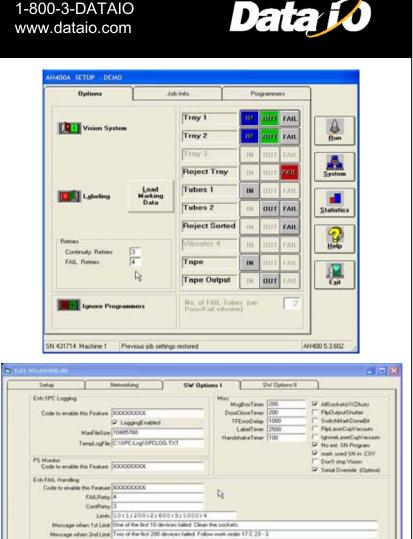
Customers can define retry limits, for example, minimum number of passed devices, and maximum allowed rejects.

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Operating Characteristics

- · Security key enabled
- Options fields are visible on setup page
- Allows definition of four consecutive limits
- When a limit is reached, PS System stops production and displays an individual predefined message.
- Message must be confirmed by operator before production may continue.

Enhanced Yield Programming Controls



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Manager above 3rd Lond Three of the first \$500 devices failed. Call Supervi

age others 4th Link Four of the first 1000-

FlashCORE Family



Benefits

- Monitor system utilization
- Production statistics
- Supported on RoadRunner and PS automated systems
- Production Programming
- Simple installation
- View from your PC screen

Order Information

PS – Remote Monitoring SW RR – Remote Monitoring SW

Remote Monitoring Software

1-800-3-DATAIO www.dataio.com



Remote Monitoring Software

Whether across the shop floor or across another geography, today's electronics manufacturers require the ability to continually monitor their automated processes to maximize system efficiencies.

Data I/O's Remote Monitoring software is an important part of the quality management process. Data I/O's FlashCore family of programming solutions are network attachable for simplified data sharing. The FlashCore family of solutions includes the FlashPAK desktop programmer, the inline RoadRunner (attaching directly to the SMT feeder), and the flexible offline PS family of handler / programming systems.

When programming tasks are initiated on RoadRunner and PS Automated Systems, the system memory is sampled periodically and generates a statistics folder, viewable on your remote PC. Managers can know about system utilization and programming yields in near real time.

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FlashCORE Family	Remote Monitoring
	Software
Prisa Data i j	1-800-3-DATAIO www.dataio.com
	PSMonitor
Sample window >>	Amount of PS Handlers in Network 1
Installing the Remote Monitoring Software is a simple procedure that follows installation of other server or PC based applications	Path to AkUob.TXT (in Shared Folder on Handler-PC, Drive M:) Browse Path to WinAH400.INI (in Shared Folder C:\AH400_32 on Handler-PC)
Note: Up to ten RoadRunners and PS systems can be monitored on the same user network.	Browse Show Save & Exit
Sample window >>	🖻 PS #1
Up to 12 programming sites can be	Job MX360F26 Running
utilized in each PS automated handler, each site containing four sockets. The reporting window shows the Pass Fail	Done : Total PASS 107 Total FAIL 1 Yield 99.1%
statistics and yield for the total task.	Pgmr 1 21 0 Pgmr 7 9 0
Observing the monitor during operation provides immediate user	Pgmr 2 19 0 Pgmr 8 9 0 Pgmr 3 8 0 Pgmr 9 9 0
feedback on machine utilization.	Pgmr 3 8 0 Pgmr 9 9 0 Pgmr 4 1 0 Pgmr 10 9 0
This software is not subject to Data I/O's standard product warranty. Technical support is	Pgmr 5 9 0 Pgmr 11 2 0
provided on a limited basis.	Pgmr 6 9 0 Pgmr 12 2 1
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Assists in your product configuration management

Traceability for your audit trail

For PS288/PS588 FlashCORE Programming Systems

Archived jobs easily made while running a Task

Benefits

- Programming jobs are protected from operator error
- Supervisor controls when an archived job is ready for use by the operator
- Archived jobs can be created, tested, and saved
- Mismatches are identified for system hardware, firmware, adapter module
- Produces repeatable programming results regardless of current version of installed software

Version Control Software

1-800-3-DATAIO www.dataio.com



Version Control

The Version Control (VC) Software was developed in response to customer needs for both configuration management and traceability requirements. VC enables customers to run a job on PS Series FlashCore Systems with repeatable results regardless of which versions of TLWin and programmer firmware are currently installed.

This application software allows creation of programming jobs that can be archived (stored in a separate subdirectory) and rerun at a later date. Programmer firmware can be automatically restored to the version used when the job was originally archived to produce the same programming results.

System supervisors can create jobs that include the saved condition, therefore decreasing operator error. Archived jobs can *not* be edited. Mismatch identification and corrective actions can be user defined.

Extensive HELP files available.

Order Information Model number = PS-VERSION CONTROL FC

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Application Software System Requirements: • TLWin ¹ Ver 7.0 or higher	Version Control Software	
¹ Executes as an option to TLWin	1-800-3-DATAIO www.dataio.com	
Sample window >>>> This sample Task Manager window shows the sortable list of archived jobs (in green). Users can run, view, or delete archived jobs.	Task Manager Task/Kt Elie: Image: Close Image: Close <t< td=""></t<>	
http://www.dataio.com	Programming System Options System General Programmer Paths Marking Communication Version Control Operator Dialog Options I Allow showing Tasks/Kits I Allow showing Archived Jobs I Show all Archived Jobs whose state is 'ready' C Show all Archived Jobs regardless of state Validation Rules Actions to take when a component version mismatch is detected while running an Archived Job. Programmer Firmware: Install firmware version that was used when Job was archived Programmer Firmware: Warn Operator and only allow using programmers whose configuration matches the Archived Job Serialization Program: Warn Operator and allow continuing using the installed version OK Cancel ite 101, Redmond, WA 98052, USA. 425.881.6444 or 800.332.8246	
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Example Label Printers:

- Lasermark
- Synrad
- Synrad_Digital
- Rofin_Sinar
- M&R
- M&R + Tape
- Brady_Apollo

Minimum Printer Requirement

Windows drivers that print graphics.

Benefits

- Design and print labels in:
 - up to 8 different fields
 - up to 4 field pre-defined
 - up to 4 fields at run time

Six variables including

- Checksum
- Job name
- Date
- Time
- Device name
- Counter
- Simple label setup screens
- Label dimensioning

Bar code support

• Font and size selection

2004 Data I/O Corporation Draft rev 2005-05-18

Tape Label Generator Software

1-800-3-DATAIO www.dataio.com



Tape Label Generator

For use with Data I/O's TaskLink for Windows (TLWin), this application software allows customers to design and print labels for devices output to tape media.

The common medium for delivery of programmed devices to the SMT assembly line is tape (reel). In order to simplify coordination of offline programming processes with manufacturing requirements, the Tape Label Generator facilitates the identification of programmed devices including the Task information used to program the blank devices.

The Tape Label Generator provides an important part of the audit trail of programmed devices since the labeled reel contents are easily known and can be bar code scanned.

Order Information PS – Tape Label Gen SW

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Applic				
Soft	ware	Tape Label		
 System Requirements: Windows driver for Label printer (installed on the PS systems) Label printed set as default printer Bar code fonts installed on PS the system Tape label software must be installed on PS system (AHX00 folder) 		Generator Software1-800-3-DATAIO www.dataio.com		
Sample window >>>> Sample of a custom label designed and generated for printing. Sample window >>>> This window shows a label setup and fields for four print lines on the label. This software is not subject to Data I/O's standard product warranty. Technical support is provided on a limited basis.		I apeLabel v1.2.1 ProductID DeviceID My Product DeviceID *My DEVICE* Cksm 3AB5 Signature Position U123 Date 11-11-2002 Reel-Size Setup Label Preview Print Exit		
		Dimensions in: mm vidth 110 Height 70 Fields 14 Edit Field 1 v Field 1 Size 8 Width 50 Position × 58.20 select Font Anal Size 8 Height 5 v 41.53 v Add Space FieeLline 1 v Orientation Left v Add Space FieeLline 1 RectLine 1 RectLine 2 RectLine 4		
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