

FlashCORE Networked Communications



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
 - PS300 FlashCORE
 - PS288 FlashCORE
 - 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 I/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 FlashCORE 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 system within PS300 or PS288 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.

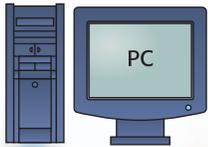
Up to 8 serial numbers or other identification numbers of varied lengths may be programmed into each device, with a maximum length of 1800 bytes for all serial number data per device.

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.



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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).

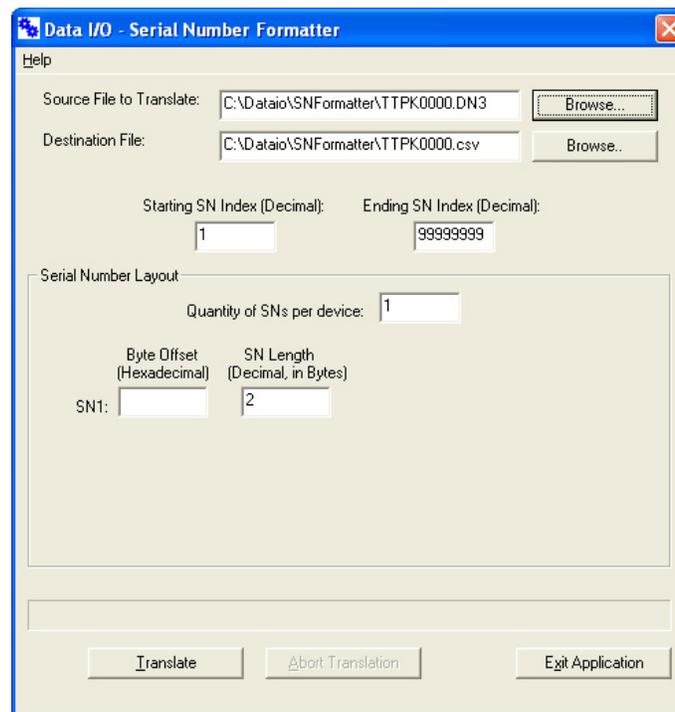
FLEXIBLE LICENSING

A combination of server site license plus client licenses for each FlashCORE 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.

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** (PS300 System)
- Operating Systems: Windows 98, Windows 2000, XP, Windows NT



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