Data I/O

Supporting Cutting-Edge Technology

FlashPAK III
With FlashCORE III TECHNOLOGY

An improved Programming Architecture that dramatically speeds data transfer to flash memory.

AT A GLANCE

Device Support for Flash memories, Microcontrollers, NAND & EEPROM

FlashPAK III™ Features

- FlashPAK III™ 4-site programmer
- Networked operation
- Load from master or data file
- Ganged socket actuation
- Small, lightweight, portable design
- Auto-start programming
- TaskLink Software
- Keypad, LCD display, and Status LEDs
- PCMCIA card reader/writer

Actuator

- Unique actuating bar opens sockets for easy insertion and removal of devices
- Reduces parts damage and socket wear
- Reduces operator fatigue
- Improves overall throughput

TaskLink™ Software

- Manage programming tasks & kits
- Run yield and operator statistics
- Remote supervisor monitoring via network

The FlashPAK III™ Networked Programming System supports the latest high-density Flash memory, NAND Flash, Managed NAND Flash, Microcontroller and EEPROM devices at maximum programming speeds and highest quality per device. FlashPAK III is the third generation programming architecture specifically designed to support the largest flash devices while keeping your production processes running at maximum velocity.

Customer Benefits

Expanded Device Support for Devices of Any Size

In addition to the huge library of existing FlashPAK supports for Flash, NAND, and Microcontrollers, the FlashPAK III adds the capability to efficiently program all types of managed NAND devices like MoviNAND, iNAND, eMMC, etc., and devices of any size.

Faster Production Throughput

FlashPAK III is designed to give the highest production throughput possible. FlashPAK III is capable of reading and writing to devices at speeds greater than 10 MBytes/second. In addition, the job download speed has been improved dramatically to enable fast job changeovers. Finally, the field configurable FPGA can be optimized for any device.

Easy Transition to Production - Your Connected Solution

The FlashPAK III is ideal for first article builds and NPI applications. As your product moves to higher volume production, the programming tasks can be easily transferred to Data I/O's automated FlashCORE programming systems without altering the programming itself.

Additional Application Software

Also available is a broad portfolio of application specific software including Data Mapper, Version Control (for traceability and configuration management), Serial Number Server, Remote Monitor, and multiple bad block schemes for NAND devices.

Worldwide Support - Asia, Europe and Americas

Data I/O is the only programming solutions company with direct operations worldwide (engineering, sales, service and support) built on our 35-year history of designing quality programming solutions.

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FlashPAK III — With FlashCORE III TECHNOLOGY

High Performance

FlashPAK III™ programs devices at theoretical speeds as specified by the semiconductor manufacturers.

Data I/O offers the most comprehensive device research center on the internet, including accurate programming times verified by customers.

Device Support

FLASH Memory

Supports devices from all major semiconductor vendors including:

Atmel	Hynix	Micron	Numonyx
Samsung	Spansion	Toshiba	... and many more!

Including:

NAND	NOR	MoviNAND	iNAND
eMMC	eSD	GBNAND	SD
MMC	OneNAND		... and many more!

NAND Bad Block Handling

- Skip-block technique included
- Add-on package of manufacturer approved NAND Flash bad block handling methods available

Microcontrollers

Atmel	Freescale	Fujitsu
Marvell	Microchip	Mitsubishi
National	NEC	Philips
Renesas	TI	... and many more!

Supports All Popular Packages:

TSOP	TSOP2	CSP	SOIC	SSOP
BGA	FBGA	uBGA	EBGA	TFBGA
QFP	TQFP	PLCC	PoP	

Program	Read	Verify
Blank Check	Illegal Bit Check	Erase
Secure	Pin Continuity	

Optional Data I/O Software

NAND Bad Block Schemes
Serial Number Server
Data Mapper
Version Control

FlashPAK III™ Specifications

Network Interface
- RJ45 connector
- Requires IP address

Electrical Requirements
- Operating Voltage: 110 to 240 VAC
- Power Consumption: 100 watts
- Frequency Range: 50 to 60 Hz

Physical Specifications
- Width: 23.5cm (9 1/4")
- Depth: 34cm (13 3/8")
- Height: 15cm (5 9/16")
- Weight: 3kg (6 lbs. 9 oz.)

Environmental
- Normal office environment/power

Temperature
- Operating: 0°to +50°C (+32°to 122°F)
- Transportation: -4°to +70°C (+40°to 158°F)
- Storage: 0°to +70°C (+32°to 158°F)

Humidity
- Operating: up to 70% non-condensing
- Storage: up to 80% non-condensing

Services
- One year warranty
- One year renewable subscription to new programming algorithms and TaskLink software updates.

TaskLink PC Workstation
- PC with Windows 2000, XP, or later
- Hard disk space: 90 MB minimum plus space for device data
- PCMCIA card slot (For job cards, optional)
- Network interface
- CD ROM Drive
- Serial or USB mouse

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