



FLX500 Automated Desktop Programming



A new experience in simplicity, quality and productivity

Powerful Desktop Programmer

- Lowest overall cost solution
- High throughput performance
- Reduces scrap costs
- Enables outstanding quality
- Programs at the speed of silicon
- Easy-to-learn and easy-to-use
- Language-independent graphical user interface
- Memory and Microcontroller support
- Flexible modular design
- Leaves the burden of learning to the FLX500
- Reliable
- Industry's fastest changeover times
- Maximizes productivity
- Preserves investment in FlashCORE adapters
- High performance Socket Adapters for lowest overall cost
- Self-learning plug-and-play operation
- Pneumatic system with minimal noise, (air facility required)
- Uses minimum floor space

The FLX500 is the ultimate in simplicity, enabling you to cost-effectively and quickly achieve world-class device programming quality. The FLX500 base unit features CAN-bus control architecture, dual pick-and-place probes with Z and Theta axes, X-Y gantry, color touch-screen monitor and an embedded PC. Job changeovers are fast and easy using plug-and-play modules with FlashCORE III programmer architecture. FlashCORE III is the industry's most advanced Flash programmer technology which also supports microcontrollers.

Break-through in simplicity

The FLX500 automated programming system is so simple and easy-to-use that an entry level operator programming manually can be productive immediately. The graphical user-interface employs international symbols that require no special language skills. Installation is also fast and easy thanks to the FLX500's universal power supply.

Industry's fastest changeovers "on demand"

It takes less than two minutes to complete a job changeover including changing Socket Adapters on 16 sites. If using two *preconfigured* programmer modules, it takes less than 30 seconds! When processing devices using one programmer module with a second module preconfigured to start the next job, you've got an *industry first zero-changeover time*.

Manage the cost of quality

The FLX500 eliminates human errors typically associated with manual gang programmers including bent or damaged leads, coplanarity issues and the binning of bad parts with good. For the first time, organizations that previously used error-prone manual gang programming solutions can afford the high quality results of an automated programming system, and at a lower overall cost.



FLX500

Automated Desktop Programming

FlashCORE III
TECHNOLOGY

High Performance

The state-of-the-art robotics delivers 600/pph throughput (zero programming time).

Programmer- FlashCORE III

The fastest programmer on the market today, the FlashCORE III, minimizes costs by getting the job done quickly. With FlashCORE III technology, programming speed is limited only by the device structure itself.

Device Support

Flash Memories, Microcontrollers, EPROMS, EEPROMs, Flash Cards and more. Data I/O offers the most comprehensive device research center on the Internet, including accurate programming times (most device search results list the *Time to Program*).
www.dataio.com/device

Package Support

BGA, μ BGA, CSP, LAP, MLP, PLCC, QFP, LQFP, PQFP, TQFP, SOIC, SSOP, TSOP, TSSOP, and more.

Sockets

8-site Programmer Modules support Standard, High Insertion Count (HIC) and High Performance (HPS) socket technologies.

NAND Bad Block Handling

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

Technical Specifications

Media

JEDEC and nonstandard trays up to 186 mm x 334 mm.

Electrical Requirements

- Operating Voltage: 100 to 240 VAC
- Power Consumption: <500 watts
- Frequency Range: 50 to 60 Hz

Physical Specifications

- Length: 770 mm (30.3 inches)
- Width: 592 mm (23.3 inches)
- Height: 615 mm (24.2 inches)
- Weight, base unit with no modules: 31.75 kg (70 lbs)

Environmental

- Temperature: 15° - 35°C (59° - 95°F)
- Humidity: 5-90% non-condensing

Connections

- Network: 100Base T Ethernet
- Air: 4.8-5.5 Bar @ .028 M³/min (70-80 PSI @ 1.0 CFM)

Job Transfer Media

- USB 2.0 (job creation via TaskLink)

System

Microsoft® XP Professional OS in embedded PC

Services

- One year warranty on factory parts and labor
- Annual Programmer Support (APS) subscription to new programming algorithms, system software and TaskLink™ software updates

PC Workstation Requirements for TaskLink

(TaskLink software accompanies FLX500 for creation of job files.)

- Personal Computer with Microsoft® Windows XP operating system
- Hard disk space: 3 GB plus space for device data (up to 32 GB)
- USB 2.0 port for jobs (or network)
- Network (recommend 100Base T)
- CD ROM drive
- Serial or bus mouse
- VGA monitor, 640 x 480 minimum resolution

Optional Subsystems

- Standard Tray Module
- Oversize Tray Module
- Programmer Module
- NAND Bad Block Schemes software package
- Serial Number Server

