

Mark610



High Resolution Inkjet Print Controller



Mark610ESI with Bulk Ink System



Mark610 with Outboard Module

The Mark610 is a high-speed, high resolution inkjet print controller system used to print date and time, barcodes, serial numbers, fixed and variable text or graphics. Ideal for many addressing, marking & coding, or labeling applications, the Mark610 features the clean, low maintenance convenience and dependability of Hewlett-Packard's disposable print cartridges. Targeting the needs and value add capabilities of the VAR and OEM markets, the Mark610 is available in a variety of user-defined configurations offering the versatility of an embeddable print controller or fully functional stand alone marker.

The Mark610 supports 1 or 2 printheads providing 16 onboard print buffers and 4 counters per printhead, allowing maximum flexibility and fast printing. User defined I/O options enable triggering of specialized messages via upstream PLCs. User defined outputs provide the ability to trigger system actions; for example turning on UV lamps, starting conveyors, or enabling verification processes. A second printhead provides printing in a separate location with unique messaging or enables stitching with the 2 Printhead Outboard Module.

Communication Flexibility at no additional cost:

The Mark610 comes equipped with Marking and Coding software allowing the user to create, print, save and edit messages, configure the system, and adjust cartridge controls. The software contains macros for serialization, counting, date calculations, time offsets and timestamps etc. After configuration, the computer may be detached from the controller for true standalone operation.

Every feature of the software may be accessed and utilized by user applications via integration through the provided simplified protocol.



PRODUCT DATA

Controllers/Drivers

Simplified Protocol enabling application integration
Marking & Coding software included
Windows® XP compatible
RS-232, RS-422, High-speed USB

Operating Modes

Firing Clock:

- Internal clock/No encoder (0 - 15 kHz)
- External encoder

Sensor:

- Rising or falling edge triggered
- Programmable delay from trigger

Cartridge Controls

Ability to optimize voltage, firing frequency, pulse width and thermal controls

Drop counter for ink usage

Ink low and out signal

Printhead maintenance modes

Physical/Electrical

Power: 24V max 3A

Operating Environment:

- 10-40°C at 10-50%RH
- and 10-23°C at 10-90%RH

Non-operating Environment:

- 30 to 60°C for 48 hours

Print Resolutions and Speeds

600h x 600v dpi at 25 ips, 125 fpm, 0.63 m/sec

300h x 600v dpi at 50 ips, 250 fpm, 1.26 m/sec

150h x 600v dpi at 100 ips, 500 fpm, 2.52 m/sec

100h x 600v dpi at 150 ips, 750 fpm, 3.81 m/sec

Other resolutions and speeds possible

Printing Capability

Height: 0.5" (12.7mm) per printhead, 1" (stitched)

Lines of Print: 1, 2, 3, or 4 per printhead

Direction:

- Bi-directional (mirror on X) per printhead
- Upside-down (mirror on Y) per printhead

Fonts:

- Up to 99 resident simultaneously

Message length:

- 478 characters per message x 4 lines
- 16 Message Buffers per printhead

Dimensions

Embeddable Unit: 1.25" x 6.3" x 8.8"

Unit Enclosure: 2.25" x 6.7" x 9.0"



Outboard Module 2 Family

Printable Items

Fixed and variable ASCII text

User designed fonts or images

Time/Date stamp: fixed, real-time or postdated

Programmable Sequence Counters (4) per printhead

Options

Single printhead version

Enclosure

Communications interface

User defined I/O

External power supply

Outboard modules

Warranty

One Year



Outboard Module 3 Family