Datacard® MX Series System

Uniquely powerful card-to-envelope solution for highly differentiated flat cards

The Datacard® MX Series solution features a full suite of flat card personalization technologies and card delivery systems. Card issuers can employ inline customization — from eye-catching cards to dynamic activation labels to bold card carriers — bringing unique designs directly to the cardholder. Plus, seamlessly integrate envelope printing, insertion, and quality assurance to increase operational efficiency and key performance metrics.
Full suite of flat card personalization and delivery solutions

DATACARD® MX9100™ CARD ISSUANCE SYSTEM

Today’s most advanced and feature-rich flat card personalization platform is built to meet the fast-growing consumer demand for attention-grabbing flat cards — from payment cards to government-issued IDs. This system gives you the speed, power, and control you need to build successful programs. Best-in-class UV-curable printing technologies ensure superior image quality. Up to 4,000 CPH rated speed — plus intelligence, quality, and reliability — combine for the industry’s highest real-world throughput.

BUILD YOUR UNIQUE SYSTEM

- System Controller
- High Capacity Card Input
- Card Cleaning
- Vision Verification Gen 2
- Magnetic Stripe Encoding
- Barrel Smart Card Personalization
- Durable Graphics Printing
- Drop on Demand Printing Gen 2
- Laser 450F
- Laser 450G
- Braille Personalization
- Color Label Printing
- Label Affixing
- Card Buffer/Flipper
- Multi-Card Buffer
- Quality Control
- High Capacity Card Output
- Datacard® MXD810™ Card Delivery System
- Datacard® MXi810™ Envelope Insertion System
Powerful integrated software: Controller Software provides a single interface for all interactions with the MX9100 System. This powerful software manages access to the system, enables creation of card and job setups, and tracks production level audits to empower card operation efficiency and security.

Next generation technologies: Deliver unique, eye-catching cards and labels by utilizing UV-curable card personalization technologies with full-color, dynamic label printing — all inline.

True field modularity: Unlike other systems, the MX9100 System offers true field modularity. Entirely new or enhanced modules can be field-installed in a matter of minutes, which helps drive the unmatched investment protection you get from Entrust.

Smart card flexibility: An innovative barrel smart card module — powered by Adaptive Issuance™ Chip Interface Software — accommodates contact, contactless, dual interface, or combi smart cards with a variety of coupler choices. An expandable design accommodates complex smart card networks.

Comprehensive quality assurance: Automated inline quality control technologies greatly reduce errors and waste by automatically verifying physical and electronic card elements. These capabilities reduce the need for manual inspection and directly contribute to higher throughput and lower costs.

Service and support: The MX Series Platform is supported by the industry’s largest service and support network, which spans more than 150 countries worldwide. Online and phone support is available 24/7.
Deliver bold graphics and messaging

You know the importance of delivering high-quality driver's licenses to your citizens and need a simple way to engage them while maximizing operational efficiency and minimizing costs, downtime and integration headaches. So, isn't it time to reimagine your card carriers and explore color printing?

Not all printers are created equally. Leverage on-demand variable printing capabilities with the RISO ComColor® GD 7330R inkjet printer, which seamlessly integrates with Datacard® card delivery systems. Optimize productivity with minimal downtime and take advantage of CMYK + Gray printing for maximum flexibility to transform your card carriers into highly targeted, highly effective citizen communications.

**Self-service options**

Direct citizens to online services, information, forms and public records.

**Flexible design**

From a platform you already trust, custom messages & colorful graphics.

**Flexibility**

Flexible by design

**Dependability**

For more information, contact your sales representative today.

Print designs & images in full color. Incorporate custom designs and images with the RISO ComColor GD 7330R inkjet printer.

With the MXD810 System, you can choose from the following modules and options:

- Card Affixing
- Vertical Card Placement
- Black and White Printer
- Color Printer
- Pre-printed Form Feeder
- Flex-form
- Form Buffer
- Form Folders
- High-Speed Folding Kit
- Card Carrier Stock and Template Verification
- Card Carrier Sorter
- Form Stacker

Win the hearts, and wallets, of your customers.
Create big opportunities with enhanced card delivery

Bigger, bolder card carriers give marketers a new way to reach cardholders and grow revenue. Use the extra space to deliver targeted personalized messaging, promote card activation and rewards, and cross-sell other key products and services. Capture cardholders’ attention with engaging color graphics and images that speak directly to their lifestyles and interests.

**MXD810 CARD DELIVERY SYSTEM**

**Streamlined data flow:** Both card personalization and card delivery systems use one set of data and file names — resulting in increased data security and reduced IT interventions.

**Support the vertical card trend:** Add card placement flexibility without reducing job sizes based on card orientation. Dynamically place cards on carriers horizontally and vertically to meet customer requests.

**On-demand color printing:** High-quality printing helps reduce the need for large inventories of pre-printed forms. Crisp, full-color, laser printing makes it easy to add visual impact and promotional content to your mailings.

**Flexible form sizes:** This additional real estate is perfect for printing expanded terms and conditions and adding cross-promotional content to your mailers.

**Regroup production to drive uptime and efficiency:** Card carrier sorting provides the flexibility to remove inefficiencies from the inline process and/or reorganize finished card carriers to maximize production.
Bring the reliability and security you need to complete high-quality finished mailings by adding robust inserting capabilities. Include a variety of additional inserts and forms to your card mailings to add a personal touch to each package to help build lasting relationships with your customers.

**MXi810 ENVELOPE INSERTION SYSTEM**

**Achieve high productivity:** To drive continuous inline advantages, the MXi810 System offers a robust envelope insertion system. Built-in automation throughout the process helps ensure fast job changes with minimal downtime and operator intervention.

**Divert and sort:** Control your production priorities and drive your system based on business needs. Enhanced functionality allows you to automatically divert mail packages, rank important deliveries, and organize output for efficient distribution.

**Precise packages:** Inline verification automatically weighs each package or checks the thickness of each piece to verify that the envelope has the correct cards, carriers, and inserts for each cardholder — every time.

**Selective insertion:** Intelligence built in to help drive larger job runs & production throughput.

**Customized packages:** Print on-demand, personalized messaging or static logo graphics on the envelope.

**Support rewards programs:** Card carrier feeding supports the insertion of additional card carriers in a single package. This allows for more cards to be bundled in one package.
With the MXi810 System, you can choose from the following modules:

- Insert Feeder
- Sheet Feeder/Folder
- Accumulator/Folder
- Inserter Base
- Envelope Printing
- Verification
- Standard Divert
- High Capacity Vertical Conveyor
- Card Carrier Feeder

MXi810 Envelope Insertion System
### MX9100, MXD810, and MXi810 System Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td><strong>Rated Speed</strong></td>
<td>MX9100: Up to 4,000 CPH; With the MXD810 and MXi810: Up to 3,500 CPH Speed dependent on configuration; see module data sheets for specific information.</td>
</tr>
<tr>
<td><strong>Operating System</strong></td>
<td>Microsoft Windows® 10 IoT Enterprise 2016 LTSB</td>
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<tr>
<td><strong>Template Management</strong></td>
<td>Microsoft® Word 2019</td>
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<tr>
<td><strong>Maximum Configuration</strong></td>
<td>MX9100: Up to 30 modules MXD810: Up to 1 system per personalization system MXi810: Up to 1 system per MXD System</td>
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<tr>
<td><strong>Cards Per Form</strong></td>
<td>Up to 4 cards anywhere on form Up to 5 cards are allowed with the Vertical Card Placement Option</td>
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<tr>
<td><strong>Printer Ready Data</strong></td>
<td>PCL (black and white), PostScript (color), PDF</td>
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<tr>
<td><strong>Electrical Requirements</strong></td>
<td>MX9100: 230V, 50/60Hz, 15 Amps MXD810: 230V, 50/60Hz, 30 Amps MXi810: 230V, 50/60Hz, 30 Amps</td>
</tr>
<tr>
<td><strong>Operating Requirements</strong></td>
<td>Room temperature: 65° to 80° F (18° to 27° C); Humidity: 35% to 85% (non-condensing) Recommend service area around system be at least 36&quot; (76.2 cm) to help provide adequate airflow. See module datasheets for specific information.</td>
</tr>
<tr>
<td><strong>Storage Requirements</strong></td>
<td>Room temperature: 50° to 130° F (10° to 54° C); Humidity: 0% to 85% (non-condensing)</td>
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<tr>
<td><strong>Agency Approvals</strong></td>
<td>FCC, UL, cUL, CE, and RoHS Compliant</td>
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<tr>
<td><strong>Card Types Supported</strong></td>
<td>ISO/IEC 7810 ID-1 Size; 30 mil (+/- 10%)</td>
</tr>
<tr>
<td><strong>Card Materials Supported</strong></td>
<td>Most card materials can be processed, including PVC, composite, polycarbonate, ABS, PET, and PETG. Limitations may exist for each personalization or verification technology.</td>
</tr>
<tr>
<td><strong>Paper Types Supported</strong></td>
<td>20-24 lb bond paper (90.3 gsm)</td>
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</tbody>
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Note: MX9100 System modules cannot be used in the Datacard® MX8100™ Card Issuance System, Datacard® MX6100™ Card Issuance System, or the Datacard® MX2100™ Card Issuance System. MXi810, MX6100, and MX2100, System modules cannot be used in the MX9100 System. For specific details, see individual module data sheet.

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### INTELLIGENT END-TO-END ISSUANCE

**MX9100 System**

**MXD810 System**

**MXi810 System**

Note: The folder/flipper capability is only available with the High-Speed Folding Kit.