DATACARD[®] MX1100[™] CARD ISSUANCE SYSTEM

System Specification	ns
System Controller	Intel Xeon E3-1275 3.6HGz; Memory 32 GB; Hard drive Minimum 1.2 terabyte SSD
Security Software Capability	Microsoft Windows Embedded Standard 7 OS security access level control and input / export of encrypted and / or digitally signed data.
Cand Input /Output Trava	Access and privileges are assigned by the administrator.
Card Input/Output Trays Magnetic Stripe Encoding	Up to 500 (0.03 in. thick) non-embossed cards per tray; 300 embossed cards per tray. Supports common ISO, AAMVA and JIS formats; High, Iow and JIS coercivity
Plagnetic Stripe Encouning	Supports Control For And and an Continues, many now and also be entry Track Density: Standard encoding 75 and 210 bpi (bits per inch)
	Custom encoding selections from 75 to 315 bpi
Smart Card Personalization	Combination: Programming stations: 11 to 6
	Full support as documented below for all protocols, frequencies and communication speeds Contact: Programming stations: 1 to 11
	Protocil supported: Full ISO 7816-3, T=0/T=1
	Frequencies (clock speeds): 3.579 MHz, 4.915 MHz, 7.159 MHz and 9.830 MHz
	Supports communication speeds as defined by ISO 7816-3 up to 230K bps Contactless: Programming stations: 1 to 6; Full and top-half antenna supported
	Contactiess. Programming statutis. Fice of run and upp-namaterina supported Protocols supported: ISO 144431 Pype A, Type B, Philips MIFARE, Sony FeliCa
	Frequencies (clock speeds): 13.56 MHz
Cineda Chan Calas Deinting	Supports communication speeds of 106, 212, 424 and 847 Kbps
Single-Step Color Printing	Resolution: 300 dpi Text Formats: Scalable fonts, including TrueType fonts for Microsoft Windows operating systems
	Image Formats: Certain versions or features of the following image formats may be supported: BMP, DCT (Datacard 9000 UltraGrafix monochrome image format),
	DCP, DPEG (Datacard 9000 color image format), GIF 87, GIF 89, JPEG, JPEG 2000, PCX, PNG, TGA and TIFF. For additional information contact
	your local sales representative. Placement: Near edge-to-edge - 0.1 in. (2.54 mm) from card edge, chip or cutout
	Cleaning Area: Entire front and back surface of the card in one pass. Located by the input trays
Graphics Printing	Resolution: 300 dpi (Graphics Printing), 600 dpi (Durable Graphics Printing)
Durable Graphics Printing	Text Formats: Scalable fonts, including TrueType fonts for Microsoft Windows operating systems Bar Code Formats: One-dimensional (ID): Code 39. Code 39 Extended. Code 39 HIBC. Codabar. NW7. EAN8. JAN8. EAN13. JAN13. UPCA. UPCE. Booklan. Interleaved
	bar code r ofinias, offectimensional (D), code 35, code 35, KDP lessey, Intelligent Mail (ID), QRCode
	Two-dimensional (2D): PDF417 and Data Matrix
	Image Formats: Certain versions or features of the following image formats may be supported: BMP, DCT (Datacard 9000 UltraGrafix [®] monochrome image format), DCP, DPEG (Datacard 9000 color image format), GIF 87, GIF 89, JPEG, JPEG 2000, PCX, PNG, TGA and TIFF, For additional information contact
	bcr, bred (backard sould clining) of an angle of hard, dir bs, dir bs, dred, dred, dred, dred, and hre. For additional montation contact your local sales representative.
	Placement: Near edge-to-edge - 0.1 in. (2.54 mm) from card edge, chip or cutout
L	Cleaning Area: Entire front and back surface of the card in one pass. Located by the printhead (Graphics Printing) and located in the input trays (Durable Graphics)
Laser 325	Technology: Air cooled fiber laser; Class 1 Laser Product Capabilities: Pixel engraving; text, photos, bar codes, and other digitized images; Vector engraving; text; Micro-engraving; Tilted image engraving; CLI
	(standard), MLI (option), 3D photo (option)
	Resolution: Greater than 400 dpi; grayscale
	Elements: Photos, alphanumeric text, vector text, bar codes, signature, fingerprint, black-and-white logos, graphic images, scrambled indicia, tilted images, ghost images, micro-engraving
	Text Formats: Scalable fonts, including TrueType fonts for Microsoft* Windows* operating systems
	Bar Code Formats: One-dimensional (ID): EANI3, Code 39, Code 128, Interleaved 2 of 5
	Two-dimensional (2D): PDF417, Data Matrix, QR Image formats: JPEG (.jpg),TIFF (.tif), Bitmap (.bmp), PNG (.png)
Basic Topcoat	Hull edge-to-edge embossable topcoat. Available in clear and random or registered custom holographics
DuraGard [®] Laminate	Placement within approximately 0.03 in. (0.081 cm) of card edges. Card-to-card placement tolerance of less than 0.032 in. Size/Thickness: 2.06 in. x 3.31 in. (5.23 cm
Fach a seine la dest Drintin e	x 8.41 cm; 1.0 mil thick
Embossing Indent Printing	Capability: Up to 8 lines of embossing Indent printing: Front, rear or both sides of the card
	Print placement: Vertical: 0.16 in. (4 mm) to 1.46 in. (37.1 mm) from bottom edge of card to center line
	Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line
	Fonts: 112-character wheel accomodates multiple fonts and special characters Standard: OCR-A, OCR-B, Standard Gothic, Helvetica, Farrington, Katakana. Special, custom, secure fonts and international language characters
Secure Indent	Capabilities: Indent a single line or multiple lines
	Fonts: 112-character indent wheel accommodates multiple fonts and special characters
Topping	Standard, outlined, pattern and custom characters including rotated character fonts (90°, 180°, or 270°) and shapes
Topping	Automatically determines and applies the appropriate topping area based on prior embossing in the same production run Vertical: 1.54 in (39.1 mm) measured from bottom edge of the card to uppermost character edge and 0.095 in. (2.4 mm) measured from bottom
	edge of the card to lowermost edge
	Horizontal: 3.08 in. (78.3 mm) measured from left edge of card to final character edge and 0.24 in. (6.1 mm) measured from left edge of card to first character edge
Pre-Printed Label Affixing	Label types supported: Preprinted labels (see Datacard specification document 530202-001)
	Label Size: Minimum: Height: 0.625 in. (15.9 mm), Width: 1.0 in. (25.4 mm)
	Maximum: Height: 1.0 in. (25.4 mm), Width: 3.0 in. (76.2 mm)
	Label Placement: 1.0 in. (25.4 mm) from the bottom of the card 0.125 in. (3.175 mm) from the top of the card
	0.10 in. (2.54 mm) from the right or left edge of the card
Bar Code Scanning	Bar Code Formats: One-dimensional (ID): EAN12, Code 39, Code 128 and Interleaved 2 of 5
	Two-dimensional (2D): PDF417 and Data Matrix Minimum Height: One-dimensional (1D): either .25" or 0.15 x total length of code whichever is larger
	minimum Height. One-dimensional (LD). Pitcher 25 of 0.15 k total Height of code Whicheven's larger Two-dimensional (DD): PDF417: minimum height is twice the length of code
	Data Matrix: Minimum height is dependent on amount of data and size of elements.
	Narrowest Width of Space/Bar in Bar Code: Code 39, code 128, Interleaved 2 of 5 0.005 in (0.127 mm)
Vision Verification Gen 2	UPC 0.013 in. (0.330 mm); PDF417 0.0066 in. (0.167 mm); Data Matrix 0.015 in. (0.381 mm) Readable Elements: Basic support for many TrueType fonts for Microsoft* Windows* operating systems: printed and pre-printed graphics, laser, OCR-B (including
vision vennuduon Gen Z	Readable Elements: Basic support for many inderspection microsoft, windows, operating systems, printed and pre-printed graphics, laser, UCR-B (including ICAO MRZ standards for cards).
	Image Rotation Capabilities: Supports rotation at 90, 180 and 270 degrees
	Minimum Verifiable Text Size: High-quality, lithographic printing - 0.06 in. (1.52mm)
System Height & Depth	To top of module 50.1 in. (127.3 cm). Front to back 33.8 in (85.9 cm)
Electrical Requirements Operating Requirements	230V, 50/60Hz, 15 Amps Room temperature: 65° to 80° F (18° to 27° C); Humidity: 35% to 85% (non-condensing)
operating requirements	Room temperature: 55° to 80° F (18° to 27° C); Humiaity: 55% to 85% (non-condensing) See module datasheets for specific information
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DATACARD[®] MX1100[™] CARD ISSUANCE SYSTEM



KEY TECHNOLOGIES

- Magnetic Stripe Encoding
- Smart Card Personalization
- Single-Step Color Printing
- Graphics Printing
- Durable Graphics Printing
- Laser 325
- Basic Topcoat
- Datacard[®] DuraGard[®] Laminate
- Embossing/Indent Printing
- Secure Indent
- Topping
- Label Affixing
- Bar Code Scanning
- Vision Verification Gen 2
- Datacard® MXD110™ Card Delivery System
- Datacard®MXi111™ Envelope Insertion System

Take your card program to the next level of efficiency for a minimal capital investment. The Datacard® MX1100™ card issuance system helps card issuers take an affordable first step into centralized card issuance. The system offers a unique combination of low cost-per-card and proven Datacard quality, reliability and ease-of-use for expanding card programs.

• Metal card engraving. The MX1100 system offers customers the ability to produce metal engraved cards or plastic financial cards within the same system, providing a productive solution that can serve as both a standard personalization system as well as a unique program differentiator. Metal cards provide a strong brand statement within high value or elite card programs. The MX1100 system can now service both plastic and metal card types. See Datacard® MX1100™ card issuance system for metal card personalization overview datasheet for more information.

O Entrust Datacard

Corporate Headquarters Phone: +1 952 933 1223 www.datacard.com info@entrustdatacard.com



Affordable and secure centralized card issuance

• A choice of pre-configured systems. The MX1100 system is available in several value-priced fixed configurations - with or without smart card capabilities, allowing you the flexibility to choose the configuration that meets the specific needs of your card program.

• Proven design from a trusted partner. Based on the industry leading Datacard® central issuance platforms, the MX1100 system consistently demonstrates superior productivity and security in incredibly demanding issuance environments worldwide. Multiple physical and logical security features reduce the risk of fraud and theft without slowing the issuance process.

• A complete card-to-envelope solution. The Datacard® MXD110™ card delivery and Datacard® MXiIII™ envelope insertion systems seamlessly integrate with the MXI100 system to enhance your overall card operations. In one automated process, you can affix cards and add marketing insertions into an envelope for a complete card-to-envelope solution.



The MX1100 system is available

in several value-priced, fixed

configurations that are ideal

national ID, driver's licenses,

healthcare cards, membership,

credit, debit, prepaid financial

for issuing highly secure

and metal core cards.

KEY TECHNOLOGIES

Physical and Logical Security

The MX1100 system offers multiple lines of defense to help reduce the risk of fraud and theft. Logical safeguards protect cardholder and production data, while physical security features limit access to the system controller, card stock and supplies.

System Controller Software

Centralized controls and an intuitive interface allows operators to manage all system functions – data input, job setups, card layout design, production environment, error/ remake management and audit/reconciliation management.

Magnetic Stripe Encoding

Write and verify up to three tracks of data simultaneously on ID-1 or mini-cards. Flexible mounting of encoding heads accommodate a wide range of encoding needs. The system provides read/lookup and read/ verify functions to automate downstream personalization. It supports all ISO, AAMVA and JIS encoding formats with common coercivity requirements.

Smart Card Personalization

Personalize smart cards with a flexible, high-quality and secure system. The system architecture accomodates contact and contactless smart cards enabling issuers to accomodate many card types.

Laser 325

State-of-the-art fiber optic laser engraving technology delivers exceptional quality. It delivers variable-size photos, alphanumeric text, 1D and 2D bar codes, micro-engraving, black-and-white logos and other graphical elements at greater than 400 dpi gray scale resolution. The system allows engraving of both the front and backside of the card and provides standard CLI and/or optional MLI or 3D tilted image engraving for enhanced visual security.

Single-Step Color Printing

Print full-color, 300 dpi photos, graphics, logos and images directly on the card using dye diffusion thermal transfer (D2T2) technology. The system allows for near edgeto-edge printing and provides a low-cost color output in a compact footprint. The single-step color printing package includes your choice of basic topcoat or DuraGard laminate.

Graphics Printing

Thermal technology enables card issuers to print 300 dpi monochrome, custom graphics, including text, logos and bar codes. Near edge-to-edge printing and precise placement tolerances deliver excellent results on PVC cards. Flexible configurations allow customers to print different colors on a single side, or print front and back graphics in a single pass.

Durable Graphics Printing Module

Personalize long-lasting, high-resolution 600 dpi monochrome graphics - such as text, logos, bar codes and other card elements on PVC cards using thermal transfer UV-cured ribbon technology. Topcoat application is not required.

Basic Topcoat

Protect color or graphics printed images with a true edge-to-edge layer of clear or holographic topcoat. A variety of application rollers are available to meet card program needs.

DuraGard® Lamination

Issuers who require extended card durability and security can replace basic topcoat with DuraGard laminate — a polyester patch that offers extra protection. Laminate supplies are available in holographic and a variety of clear laminate sizes.

Secure Indenting

Adds tactile elements to national IDs, driver's licenses and other ID cards to help prevent fraud or alteration. The secure indent technology provides variable personalization and supports multiple fonts including a wide range of alpha numeric, special or custom characters. These indent characters can be positioned vertically or horizontally on the front, rear or both sides of the card.

KEY TECHNOLOGIES

Embossing/Indent Printing

Personalize cards using high-quality, ISO-compliant embossing and For additional security, the system can read a variety of preprinted indent printing on front, back or both sides of cards. The unique serial numbers, document control numbers and bar codes used to design provides consistent character-to-character spacing, text control and monitor secure card stocks providing an additional layer height and alignment. Issuers can utilize multiple fonts and a wide of fraud prevention. range of characters, including Braille and security fonts.

Automate your quality process with the inline quality checking Topping option. It verifies a wide variety of pre-printed and personalized Colored topping material increases readability of embossed characters. The system delivers consistent, high-quality topping, card elements on the front and/or back of cards to help reduce the chance of errors, improve data integrity and increase efficiency. after card - exceeding ISO standards.

Label Affixing

Increase production efficiency by affixing adhesive labels to cards for security, activation or promotional programs.

CONFIGURATIONS

The MX1100 offers flexible options with or without smartcard. Choose the configuation that meets your card production needs. For more information on the configuration options and their included technologies, refer to the MX1100 Systems Configurations Overview Guide available on PartnerPage

	MX1100 FIGURATIONS	Target Application
DG	Durable Graphics	Financial Credit, Debit
DGS	Durable Graphics Smart Card Enabled	Financial Credit, Debit
G	Graphics	Drivers License, Health- care, Gift Credit, Direct Mail, Membership
GS	Graphics Smart Card Enabled	National ID, Healthcare, Drivers License, Flat Credit, Gift
E	Embossing	Financial Credit, Debit, Gift
ES	Embossing Smart Card Enabled	EMV, Credit, Debit, Gift
L	Laser	National ID, Social Se- curity
LS	Laser Smart Card Enabled	Natioanl ID, Drivers License



CURE IDENTIFICATION -

Bar Code Scanning

Vision Verification Gen 2

		L CARD MX1100 IGURATIONS	Target Applications
	ML	Metal Card	Financial Credit, Debit
	MLS	Metal Card Smart Card Enabled	Financial Credit, Debit
]	MLP	Metal & Plastic Card	Financial Credit, Debit
	MLPS	Metal & Plastic Card Smart Card Enabled	Financial Credit, Debit

For more information on the Metal Card Configuration options, refer to the MX1100 Metal Card Datasheet availbale on PartnerPage.

DATACARD® MX1100[™] CARD ISSUANCE SYSTEM FOR METAL CARD PERSONALIZATION

			DATACARD [®] MX FOR METAL CA	
System Specifications			I OR FIL IAL CA	TERSUNALI
System Controller	Intel Xeon Quad Core, 3.1 GHz; Memory 8.0 GB; Hard Drive 1 terabyte			
Security Software Capability	Microsoft Windows Embedded Standard 7 OS security access level control and input / export of encrypted and / or digitally signed data. Access and privileges are assigned by the administrator.			
Card Input/Output Trays (Metal)	Input Up to 30 cards (0.03in thick)/Output Up to 500 cards			
Card Input/Output Trays (Plastic)	Up to 500 cards (0.03in thick) non-embossed cards per tray; 300 embossed cards per tray			1234 5678 9123 456
Magnetic Stripe Encoding	Supports common ISO, AAMVA and JIS formats; High, Iow and JIS coercivity. Track Density: Standard encoding 75 and 210 bpi (bits per inch) Custom encoding selections from 75 to 315 bpi		FINANCIAL	LECTRONC USE ONLY
Smart Card Personalization	Combination: Contact programming stations: 1 to 11 Contactless programming stations: 1 to 6 Full support as documented below for all protocols, frequencies and communication speeds Contact: Programming stations: 1 to 11 Protocols supported: Full ISO 7816-3, T=0/T=1 Frequencies (clock speeds): 3.579 MHz, 4.915 MHz, 7.159 MHz and 9.830 MHz Supports communication speeds as defined by ISO 7816-3 up to 230K bps Contactless: Programming stations: 1 to 6; Full and top-half antenna supported Protocols supported: ISO 14443 Type A, Type B, Philips MIFARE, Sony FeliCa Frequencies (clock speeds): 13.56 MHz Supports communication speeds of 106, 212, 424 and 847 Kbps		1234 5678 9 1234 5678 9 NATALIE AMANA ELEC	123 4567 WEY 00/00 ROUNC LISE ONLY
Graphics Printing (For use with plastic cards only)	Resolution: 300 dpi Text Formats: Scalable fonts, including TrueType fonts for Microsoft Windows operating systems Bar Code Formats: One-dimensional (1D): Code 39, Code 39 Extended, Code 39 HIBC, Codabar, NW7, EAN8, JAN8, EAN13, JAN13, UPCA, UPCE, Booklan, Interleaved 2 of 5, Code 128, EAN_UCC128, Code 93, MSI Plessey, Intelligent Mail (1D)		KEY TECHNOLOGIES	Affordable and se
	Two-dimensional (2D): PDF417, Data Matrix, QR Image Formats: Certain versions or features of the following image formats may be supported: BMP, DCT (Datacard 9000 Ultra		Magnetic Stripe Encoding	Take your card progra
	Grafix monochrome image format), DCP, DPEG (Datacard 9000 color image format), GIF 87, GIF 89, JPEG 2000, PCX, PNG, TGA and TIFF. For additional information contact your local sales representative. Placement: Near edge-to-edge - 0.1 in. (2.54 mm) from card edge, chip or cutout Cleaning Area: Entire front and back surface of the card in one pass		 Smart Card Personalization Graphics Printing Laser 325 	The Datacard® MX1100 issuers take an afford
Laser 325	Technology: Air cooled fiber laser; Class 1 Laser Product Capabilities: Pixel engraving: text, photos, bar codes, and other digitized images; Vector engraving; text; Micro-engraving; Tilted image engraving; CLI (standard), MLI (option), 3D photo (option) Resolution: Greater than 400 dpi; grayscale Elements: Photos, alphanumeric text, vector text, bar codes, signature, fingerprint, black-and-white logos, graphic images, scrambled indicia, tilted images, ghost images, micro-engraving Text Formats: Scalable fonts, including TrueType fonts for Microsoft Windows operating systems Bar Code Formats: One-dimensional (1D): EAN13, Code 39, Code 128, Interleaved 2 of 5 Two-dimensional (2D): PDF417, Data Matrix, QR Image formats:.JPEG (jpg),TIFF (tif), Bitmap (bmp), PNG (png)		 Embossing/Indent Printing Topping Label Affixing 	 A choice of pre-cor capabilities is availa card capabilies allow specific needs of yo Proven design from issuance platforms,
Embossing Indent Printing (For use with plastic cards only)	Up to 8 lines of embossing Indent printing: Front, rear or both sides of the card Emboss and indent print placement Vertical: 0.16 in. (4 mm) to 1.46 in. (37.1 mm) from bottom edge of card to center line Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line Wide variety of characters and fonts: 112-character wheel accomodates multiple fonts and special characters Standard fonts: OCR-A, OCR-B, Standard Gothic, Helvetica, Farrington, Katakana Special, custom, secure fonts and international language characters			demonstrates super environments world • Metal card engravir engraved cards or p
Topping (For use with plastic cards only)	Automatically determines the appropriate topping area based on prior embossing Vertical: 1.54 in (39.1 mm) measured from bottom edge of the card to uppermost character edge and 0.095 in. (2.4 mm) measured from bottom edge of the card to lowermost character edge Horizontal: 3.08 in. (78.3 mm) measured from left edge of card to final character edge and 0.24 in. (6.1 mm) measured from left edge of card to first character edge Topping foil can only be applied to cards that are embossed in the same production run	Corporate Headquarters Phone: +1 952 933 1223		solution that can se program differentia value or elite card p metal card types.
Label Affixing (For use with plastic cards only)	Label Affixing Label types supported: Preprinted labels (see Datacard specification document 530202-001) Label Size: Minimum: Height: 0.625 in. (15.9 mm), Width: 1.0 in. (25.4 mm) Maximum: Height: 1.0 in. (25.4 mm), Width: 3.0 in. (76.2 mm) Label Placement: 1.0 in. (25.4 mm) from the bottom of the card 0.125 in. (3.175 mm) from the top of the card 0.10 in. (2.54 mm) from the right or left edge of the card	www.datacard.com info@entrustdatacard.com		
System Height	To top of module 50.1 in. (127.3 cm)	Entrust Datacard, Datacard, MX1100 and the hexagon design are registered trademarks, trademarks and or service marks of Entrust Pathagrad, Crangetting in the lighted States and or schore		
System Depth	33.8 in. (85.9 cm)	Entrust Datacard Corporation in the United States and or other countries. Names and logos on sample cards are fictitious. Any similarity to actual names, trademarks or tradenames is		
Electrical Requirements	230V, 50/60Hz, 15 Amps	 Any similarity to actual names, trademarks or trademarks is coincidental. © 2015 - 2016 Entrust Datacard Corporation. All rights reserved. 		
Operating Requirements	Room temperature: 65° to 80° F (18° to 27° C); Humidity: 20% to 85% (non-condensing)	CII6-5006-001		
Storage Requirements	Room temperature: 50° to 130° F (10° to 54° C); Humidity: 0% to 85% (non-condensing)]		

D ISSUANCE SYSTEM



and secure centralized card issuance

d program to the next level of efficiency for a minimal capital investment. ® MX1100[™] card issuance system for metal card personalization helps card n affordable first step into metal card issuance.

pre-configured systems. The MX1100 system with metal card personalization is available in several value-priced fixed configurations — with or without smart lies allowing you the flexibility to choose the configuration that meets the ds of your card program.

gn from a trusted partner. Based on the industry leading Datacard[®] central atforms, the MX1100 system for metal card personalization consistently es superior productivity and security in incredibly demanding issuance ts worldwide.

engraving. The MX1100 system offers customers the ability to produce metal ards or plastic financial cards within the same system, providing a productive t can serve as both a standard personalization system as well as a unique ferentiator. Metal cards provide a strong brand statement within high e card programs. The MX1100 system can now service both plastic and



KEY TECHNOLOGIES

Physical and Logical Security

The MX1100 card system for

metal card personalization

is available in several value-

priced, fixed configurations

that are ideal for issuing high

quality, unique and exclusive

credit and debit cards.

The MX1100 system offers multiple lines of defense to help reduce the risk of fraud and theft. Logical safeguards protect cardholder and production data, while physical security features limit access to the system controller, card stock and supplies.

System Controller Software

Centralized controls and an intuitive interface allows operators to manage all system functions — data input, job setups, card layout design, production environment, error/remake management and audit/ reconciliation management.

Magnetic Stripe Encoding

Write and verify up to three tracks of data simultaneously on ID-1 cards. Flexible mounting of encoding heads accommodate a wide range of encoding needs. The system provides read/lookup and read/ verify functions to automate downstream personalization. It supports all ISO, AAMVA and JIS encoding formats with common coercivity requirements.

Smart Card Personalization

Personalize smart cards with a flexible, high-quality and secure system. The system architecture accomodates contact and contactless smart cards enabling issuers to accomodate many card types.



State-of-the-art fiber optic laser engraving technology delivers exceptional quality. It delivers variable-size photos, alphanumeric text, 1D and 2D bar codes, micro-engraving, black-and-white logos and other graphical elements at greater than 400 dpi gray scale resolution. The system allows engraving of both the front and backside of the card.

Graphics Printing (For use with plastic cards only)

Thermal technology enables card issuers to print 300 dpi monochrome, custom graphics, including text, logos and bar codes. Near edge-to-edge printing and precise placement tolerances deliver excellent results on PVC cards. Flexible configurations allow customers to print different colors on a single side, or print front and back graphics in a single pass. For use with plastic cards only.

Embossing/Indent Printing (For use with plastic cards only)

Personalize cards using high-quality, ISOcompliant embossing and indent printing on front, back or both sides of cards. The unique design provides consistent characterto-character spacing, text height and alignment. Issuers can utilize multiple fonts and a wide range of characters, including Braille and security fonts. For use with plastic cards only.

Topping (For use with plastic cards only)

Colored topping material increases readability of embossed characters. The system delivers consistent, high-quality topping, card after card — exceeding ISO standards. For use with plastic cards only.

Label Affixing (For use with plastic cards only)

Increase production efficiency by affixing adhesive labels to cards for security, activation or promotional programs. For use with plastic cards only.

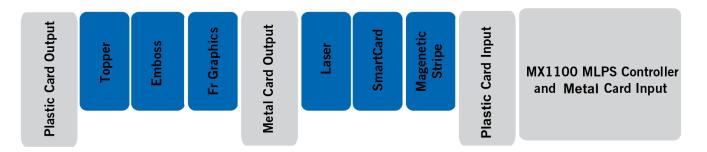
MX1100 SYSTEM METAL CARD CONFIGURATIONS

Requires RPQ opportunity submission for card analysis

	MX1100 (ML)	MX1100 (MLS)	MX1100 (MLP)	MX1100 (MLPS)		
	Metal Card	Metal Card, Smart Card	Metal & Plastic Card	Metal & Plastic Card, Smart Card		
Base System	•	•	•	•		
Input Module (Metal Card)	•	•	•	•		
Input Module (Plastic Card)			•	•		
Magnetic Stripe	Option	Option	Option	Option		
Smart Card		•		•		
Laser 325	•	•	•	•		
Output Module (Metal Card)	•	•	•	•		
Graphics Printing			Option	Option		
Embossing/Indent			•	•		
Topping			•	•		
Label Affixing			Option	Option		
Output Module (Plastic Card)			•	•		
Card Devlivery	Not a standard option. Please con	tact your regional sales manager.				
System Specifications						
Weight	1,020 lbs (462.7 kg)	1,131 lbs (513.0 kg)	1,020 lbs (462.7 kg)	1,131 lbs (513.0 kg)		
Current Draw	4.27 Amps at 230V	5.01 Apms at 230V	4.27 Amps at 230V	5.01 Amps at 230V		
Heat	3,993 BTUs per hour	4,559 BTUs per hour	3,993 BTUs per hour	4,559 BTUs per hour		
Rated Speed	Up to 600 cph, depending on card layout					
Operating System	Microsoft Windows Embedded Standard 7					
Card Types Supported	ISO/IEC 7810 ID-1 Size; 30 mil (±10%)					
Card Materials	All card materials can be processed, including PVC, composite, polycarbonate, ABS, PET and PETG. Laser engraving recommended for metal					
	core polycarbonate, composite or	PVC with special layer. Limitations m	ay exist for each personalization	technology.		
Agency Approvals	FCC, UL, CUL and ROHS compliant					

MX1100 SYSTEM CONFIGURATION FOR METAL & PLASTIC CARDS

Requires RPQ opportunity submission for card analysis



*Drawing shows additional options



• = Part of base system configuation

MX1100 System Configurations Overview Guide

Configurations – **The MX1100** system offers flexible options with or without smart card. Choose the configuration that meets your card production needs.

Base MX1100 System Configurations	DG – Durable Graphics	DGS – Durable Graphics Smart Card Enabled	G -Graphics	GS – Graphics Smart Card Enabled	E -Embossing	ES – Embossing Smart Card Enabled	L- Laser	LS - Laser Smart Card Enabled
Target Applications	Financial Credit & Debit	Financial Credit & Debit	Drivers License, Health- care, Gift Credit, Direct Mail, Membership	National ID, Healthcare, Drivers License, Flat Credit, Gift	Financial Credit, Debit, Gift	EMV, Credit, Debit, Gift	National ID, Social Security	National ID, Drivers License
Base System	•	•	•	•	•	•	•	•
Magnetic Stripe	Option	Option	Option	Option	Option	Option	Option	Option
Smart Card		•		•		•		•
Durable Graphics	•	•						
Graphics 1	Option	Option	•	•	Option	Option	Option	Option
Graphics 2	Option	Option	Option	Option	Option	Option	Option	Option
Graphics 3			Option	Option	Option	Option	Option	Option
Laser 325							•	•
Single-Step Color	Clr Pkg	Clr Pkg	Clr Pkg	Clr Pkg	Clr Pkg	Clr Pkg	Clr Pkg	Clr Pkg
Basic Topcoat	Clr Pkg	Clr Pkg	Clr Pkg	Clr Pkg	Clr Pkg	Clr Pkg	Clr Pkg	Clr Pkg
DuraGard	Replaces Basic Topcoat in Clr Pkg	Replaces Basic Topcoat in Clr Pkg	Replaces Basic Topcoat in Clr Pkg	Replaces Basic Topcoat in Clr Pkg			Replaces Basic Topcoat in Clr Pkg	Replaces Basic Topcoat in Clr Pkg
Embossing					•	•	Braille Only	Braille Only
Topping					•	•		
Label Affixing	Option	Option	Option	Option	Option	Option	Option	Option
Bar Code Scanning	Option	Option	Option	Option	Option	Option	Option	Option
Vision Verification	Option	Option	Option	Option	Option	Option	Option	Option
MXD110 System	Available	Available	Available	Available	Available	Available	Available	Available
MXi111 System	Available	Available	Available	Available	Available	Available	Available	Available
System Specifications								
Weight	903 lbs (410 kg)	1,014 lbs (464 kg)	482 lbs (219 kg)	593 lbs (270 kg)	624 lbs (283 kg)	775 lbs (351 kg)	555 lbs (252 kg)	666 lbs (303 kg)
Current Draw	4.32 Amps at 230V	5.06 Amps at 230V	2.05 Amps at 230V	2.79 Amps at 230V	3.18 Amps at 230V	3.92 Amps at 230V	2.52Amps at 230V	3.26 Amps at 230V
Heat	5,385 BTUs per hour	5,951 BTUs per hour	1,338 BTUs per hour	1,904 BTUs per hour	2,375 BTUs per hour	2,941 BTUs per hour	2,152 BTUs per hour	2,718 BTUs per hour
Rated Speed	Up to 600 cph	Up to 600 cph						
Operating System	Microsoft Windows Embe	dded Standard 7						
Card Type Supported	ISO/IEC 7810 ID-1 Size; 30	mil (±10%)						
Card Materials	All card materials can be processed, including PVC, composite, polycarbonate, ABS, PET and PETG. Laser engraving recommended for polycarbonate, composite or PVC with special layer. Color printing recommended for PVC or PVC laminated cards. When combining laser and color card material must be tested for compatibility. Limitations may exist for each personalization technology.							
Agency Approvals	FCC, UL, CUL and ROHS compliant							

MX1100 System Configurations Overview Guide - Metal Card

Configurations for METAL CARD -

THE MX1100 system offers metal card options with or without smart card. Choose the metal card configurations that meets your card production needs.

MX1100 System Metal Card Configurations	ML – Metal Card	MLS – Metal Card Smart Card Enabled	MLP – Metal & Plastic Card	MLPS – Metal & Plastic Card Smart Card Enabled	
Base System	•	•	•	•	
Input Module (Metal Card)	•	•	•	•	
Input Module (Plastic Card)			•	•	
Magnetic Stripe	Option	Option	Option	Option	
Smart Card		•		•	
Laser 325	•	•	•	•	
Output Module (Metal Card)	•	•	•	•	
Graphics Printing			Option	Option	
Embossing/Indent			Option	Option	
Topping			Option	Option	
Label Affixing			Option	Option	
Output Module (Plastic Card)			•	•	
System Specifications					
Weight	555 lbs (252 kg)	666 lbs (303 kg)	755 lbs (343 kg)	866 lbs (394 kg)	
Current Draw	2.52 Amps at 230V	3.26 Amps at 230V	3.35 Amps at 230V	4.09 Amps at 230V	
Heat	2,152 BTUs per hour	2,718 BTUs per hour	2,768 BTUs per hour	3,334 BTUs per hour	
Rated Speed	Up to 600 cph, depending on card layout				
Operating System	Microsoft Windows Embedded Standard 7				
Card Type Supported	ISO/IEC 7810 ID-1 Size; 30 mil (±10%)				
Card Materials	All card materials can be processed, including PVC, composite, polycarbonate, ABS, PET and PETG. Laser engraving recommended for metal core polycarbonate, composite or PVC with special layer. Limitations may exist for each personalization technology.				
Agency Approvals	FCC, UL, CUL and ROHS compliant				



Corporate Headquarters Phone: +1 952 933 1223 www.datacard.com info@datacard.com

DATACARD® MX1100™ CARD ISSUANCE SYSTEM

	ons	
System Controller	Intel Xeon E3-12	275 3.6HGz; Memory 32 GB; Hard drive Minimum 1.2 terabyte SSD
Security Software Capability	Microsoft Wind	ows Embedded Standard 7 OS security access level control and input / export of encrypted and / or digitally signed data.
	Access and priv	rileges are assigned by the administrator.
Card Input/Output Trays	Up to 500 (0.03	3 in. thick) non-embossed cards per tray; 300 embossed cards per tray.
Magnetic Stripe Encoding	Supports comm	non ISO, AAMVA and JIS formats; High, Iow and JIS coercivity
	Track Density:	Standard encoding 75 and 210 bpi (bits per inch)
		Custom encoding selections from 75 to 315 bpi
Smart Card Personalization	Combination:	Programming stations: 1 to 6
		Full support as documented below for all protocols, frequencies and communication speeds
	Contact:	Programming stations: 1 to 11
		Protocols supported: Full ISO 7816-3, T=0/T=1
		Frequencies (clock speeds): 3.579 MHz, 4.915 MHz, 7.159 MHz and 9.830 MHz
	Cantastlass	Supports communication speeds as defined by ISO 7816-3 up to 230K bps
	Contactless:	Programming stations: 1 to 6; Full and top-half antenna supported Protocols supported: ISO 14443 Type A, Type B, Philips MIFARE, Sony FeliCa
		Frequencies (clock speeds): 13.56 MHz
		Supports communication speeds of 106, 212, 424 and 847 Kbps
Single-Step Color Printing	Resolution:	300 dpi
5		Scalable fonts, including TrueType fonts for Microsoft Windows operating systems
	Image Formats:	Certain versions or features of the following image formats may be supported: BMP, DCT (Datacard 9000 UltraGrafix monochrome image format),
		DCP, DPEG (Datacard 9000 color image format), GIF 87, GIF 89, JPEG, JPEG 2000, PCX, PNG, TGA and TIFF. For additional information contact
		your local sales representative.
	Placement:	Near edge-to-edge - 0.1 in. (2.54 mm) from card edge, chip or cutout
Complian Delation		Entire front and back surface of the card in one pass. Located by the input trays
Graphics Printing	Resolution:	300 dpi (Graphics Printing), 600 dpi (Durable Graphics Printing) Scalable fante, including TrucTure fante for Microsoft Windows operating customs
Durable Graphics Printing		Scalable fonts, including TrueType fonts for Microsoft Windows operating systems ats: One-dimensional (ID): Code 39, Code 39 Extended, Code 39 HIBC, Codabar, NW7, EAN8, JAN8, EAN13, JAN13, UPCA, UPCE, Booklan, Interleave
		2 of 5, Code 128, EAN_UCC128, Code 93, MSI Plessey, Intelligent Mail (ID), QRCode
		Two-dimensional (2D): PDF417 and Data Matrix
	Image Formats:	: Certain versions or features of the following image formats may be supported: BMP, DCT (Datacard 9000 UltraGrafix* monochrome image format)
		DCP, DPEG (Datacard 9000 color image format), GIF 87, GIF 89, JPEG, JPEG 2000, PCX, PNG, TGA and TIFF. For additional information contact
		your local sales representative.
	Placement:	Near edge-to-edge - 0.1 in. (2.54 mm) from card edge, chip or cutout
705		Entire front and back surface of the card in one pass. Located by the printhead (Graphics Printing) and located in the input trays (Durable Graphics
aser 325	Technology:	Air cooled fiber laser; Class 1 Laser Product
	Capabilities:	Pixel engraving: text, photos, bar codes, and other digitized images; Vector engraving; text; Micro-engraving; Tilted image engraving; CLI
	Resolution:	(standard), MLI (option), 3D photo (option) Greater than 400 dpi; grayscale
	Elements:	Photos, alphanumeric text, vector text, bar codes, signature, fingerprint, black-and-white logos, graphic images, scrambled indicia, tilted images,
	Lionionio	apost images, micro-engraving
	Text Formats:	Scalable fonts, including TrueType fonts for Microsoft* Windows* operating systems
		ats: One-dimensional (1D): EAN13, Code 39, Code 128, Interleaved 2 of 5
	Bar Code Forma	ats. One dimensional (ID). EANIS, Code 55, Code 120, Interfeaved 2 of 5
		Two-dimensional (2D): PDF417, Data Matrix, QR
	Image formats:	Two-dimensional (2D): PDF417, Data Matrix, QR JPEG (.jpg),TIFF (.tif), Bitmap (.bmp), PNG (.png)
	Image formats: Full edge-to-ed	Two-dimensional (2D): PDF417, Data Matrix, QR JPEG (.jpg),TIFF (.tif), Bitmap (.bmp), PNG (.png) Ige embossable topcoat. Available in clear and random or registered custom holographics
	Image formats: Full edge-to-ed Placement with	Two-dimensional (2D): PDF417, Data Matrix, QR JPEG (jpg),TIFF (.tif), Bitmap (.bmp), PNG (.png) Ige embossable topcoat. Available in clear and random or registered custom holographics in approximately 0.03 in. (0.081 cm) of card edges. Card-to-card placement tolerance of less than 0.032 in. Size/Thickness: 2.06 in. x 3.31 in. (5.23 cr
DuraGard* Laminate	Image formats: Full edge-to-ed Placement with x 8.41 cm); 1.0 n	Two-dimensional (2D): PDF417, Data Matrix, QR JPEG (jpg),TIFF (tif), Bitmap (.bmp), PNG (.png) ige embossable topcoat. Available in clear and random or registered custom holographics in approximately 0.03 in. (0.081 cm) of card edges. Card-to-card placement tolerance of less than 0.032 in. Size/Thickness: 2.06 in. x 3.31 in. (5.23 cm nil thick
DuraGard* Laminate	Image formats: Full edge-to-ed Placement with x 8.41 cm); 1.0 n Capability:	Two-dimensional (2D): PDF417, Data Matrix, QR JPEG (jpg),TIFF (tif), Bitmap (.bmp), PNG (.png) ge embossable topcoat. Available in clear and random or registered custom holographics in approximately 0.03 in. (0.081 cm) of card edges. Card-to-card placement tolerance of less than 0.032 in. Size/Thickness: 2.06 in. x 3.31 in. (5.23 cn il thick Up to 8 lines of embossing
DuraGard* Laminate	Image formats: Full edge-to-ed Placement with x 8.41 cm); 1.0 n Capability: Indent printing:	Two-dimensional (2D): PDF417, Data Matrix, QR JPEG (jpg),TIFF (.tif), Bitmap (.bmp), PNG (.png) ge embossable topcoat. Available in clear and random or registered custom holographics in approximately 0.03 in. (0.081 cm) of card edges. Card-to-card placement tolerance of less than 0.032 in. Size/Thickness: 2.06 in. x 3.31 in. (5.23 cm nil thick Up to 8 lines of embossing Front, rear or both sides of the card
DuraGard* Laminate	Image formats: Full edge-to-ed Placement with x 8.41 cm); 1.0 n Capability: Indent printing:	Two-dimensional (2D): PDF417, Data Matrix, QR JPEG (jpg),TIFF (tiff), Bitmap (bmp), PNG (png) ge embossable topcoat. Available in clear and random or registered custom holographics in approximately 0.03 in. (0.081 cm) of card edges. Card-to-card placement tolerance of less than 0.032 in. Size/Thickness: 2.06 in. x 3.31 in. (5.23 cm nil thick Up to 8 lines of embossing Front, rear or both sides of the card t: Vertical: 0.16 in. (4 mm) to 1.46 in. (37.1 mm) from bottom edge of card to center line
DuraGard* Laminate	Image formats: Full edge-to-ed Placement with x 8.41 cm); 1.0 n Capability: Indent printing:	Two-dimensional (2D): PDF417, Data Matrix, QR JPEG (jpg),TIFF (.tif), Bitmap (.bmp), PNG (.png) ge embossable topcoat. Available in clear and random or registered custom holographics in approximately 0.03 in. (0.081 cm) of card edges. Card-to-card placement tolerance of less than 0.032 in. Size/Thickness: 2.06 in. x 3.31 in. (5.23 cm nil thick Up to 8 lines of embossing Front, rear or both sides of the card
DuraGard* Laminate	Image formats: Full edge-to-ed Placement with x 8.41 cm); 1.0 n Capability: Indent printing: Print placement Fonts:	Two-dimensional (2D): PDF417, Data Matrix, QR JPEG (jpg),TIFF (tif), Bitmap (bmp), PNG (png) ige embossable topcoat. Available in clear and random or registered custom holographics in approximately 0.03 in. (0.081 cm) of card edges. Card-to-card placement tolerance of less than 0.032 in. Size/Thickness: 2.06 in. x 3.31 in. (5.23 cm nil thick Up to 8 lines of embossing Front, rear or both sides of the card t: Vertical: 0.16 in. (4 mm) to 1.46 in. (37.1 mm) from bottom edge of card to center line Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line
DuraGard* Laminate	Image formats: Full edge-to-ed Placement with x 8.41 cm); 1.0 n Capability: Indent printing: Print placement Fonts: Capabilities:	Two-dimensional (2D): PDF417, Data Matrix, QR JPEG (jpg),TIFF (tif), Bitmap (bmp), PNG (png) ge embossable topcoat. Available in clear and random or registered custom holographics in approximately 0.03 in. (0.081 cm) of card edges. Card-to-card placement tolerance of less than 0.032 in. Size/Thickness: 2.06 in. x 3.31 in. (5.23 cr nil thick Up to 8 lines of embossing Front, rear or both sides of the card V vertical: 0.16 in. (4 mm) to 1.46 in. (37.1 mm) from bottom edge of card to center line Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line II2-character wheel accomodates multiple fonts and special characters Standard: OCR-A, OCR-B, Standard Gothic, Helvetica, Farrington, Katakana. Special, custom, secure fonts and international language characters Indent a single line or multiple lines
DuraGard* Laminate	Image formats: Full edge-to-ed Placement with x 8.41 cm); 1.0 n Capability: Indent printing: Print placement Fonts:	Two-dimensional (2D): PDF417, Data Matrix, QR JPEG (jpg),TIFF (tif), Bitmap (bmp), PNG (png) ge embossable topcoat. Available in clear and random or registered custom holographics in approximately 0.03 in. (0.081 cm) of card edges. Card-to-card placement tolerance of less than 0.032 in. Size/Thickness: 2.06 in. x 3.31 in. (5.23 cm nil thick Up to 8 lines of embossing Front, rear or both sides of the card E: Vertical: 0.16 in. (4 mm) to 1.46 in. (37.1 mm) from bottom edge of card to center line Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line 112-character wheel accomodates multiple fonts and special characters Standard: OCR-A, OCR-B, Standard Gothic, Helvetica, Farrington, Katakana. Special, custom, secure fonts and international language characters Indent a single line or multiple lines 112-character indent wheel accommodates multiple fonts and special characters
DuraGard* Laminate Embossing Indent Printing Secure Indent	Image formats: Full edge-to-ed Placement with x 8.41 cm);1:0 n Capability: Indent printing: Print placement Fonts: Capabilities: Fonts:	Two-dimensional (2D): PDF417, Data Matrix, QR JPEG (jpg),TIFF (tif), Bitmap (bmp), PNG (png) [ge embossable topcoat. Available in clear and random or registered custom holographics in approximately 0.03 in. (0.081 cm) of card edges. Card-to-card placement tolerance of less than 0.032 in. Size/Thickness: 2.06 in. x 3.31 in. (5.23 cm all thick Up to 8 lines of embossing Front, rear or both sides of the card t: Vertical: 0.16 in. (4 mm) to 1.46 in. (37.1 mm) from bottom edge of card to center line Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line 112-character wheel accomodates multiple fonts and special characters Standard: OCR-A, OCR-B, Standard Gothic, Helvetica, Farrington, Katakana. Special, custom, secure fonts and international language characters Indent a single line or multiple lines 112-character indent wheel accommodates multiple fonts and special characters Standard, outlined, pattern and custom characters including rotated character fonts (90°, 180°, or 270°) and shapes
DuraGard* Laminate Embossing Indent Printing Secure Indent	Image formats: Full edge-to-ed Placement with x 8.41 cm);1:0 n Capability: Indent printing: Print placement Fonts: Capabilities: Fonts:	Two-dimensional (2D): PDF417, Data Matrix, QR JPEG (jpg),TIFF (tif), Bitmap (bmp), PNG (png) ge embossable topcoat. Available in clear and random or registered custom holographics in approximately 0.03 in. (0.081 cm) of card edges. Card-to-card placement tolerance of less than 0.032 in. Size/Thickness: 2.06 in. x 3.31 in. (5.23 cm nil thick Up to 8 lines of embossing Front, rear or both sides of the card t: Vertical: 0.16 in. (4 mm) to 1.46 in. (37.1 mm) from bottom edge of card to center line Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line 112-character wheel accomodates multiple fonts and special characters Standard: OCR-A, OCR-B, Standard Cothic, Helvetica, Farrington, Katakana. Special, custom, secure fonts and international language characters Indent a single line or multiple lines 112-character indent wheel accommodates multiple fonts and special characters Standard, outlined, pattern and custom characters including rotated characters Standard, outlined, patter and custom characters including rotated characters Standard, outlined, pattern and custom characters including rotated characters fonts (90°, 180°, or 270°) and shapes letermines and applies the appropriate topping area based on prior embossing in the same production run
DuraGard* Laminate Embossing Indent Printing Secure Indent	Image formats: Full edge-to-ed Placement with x 8.41 cm);1:0 n Capability: Indent printing: Print placement Fonts: Capabilities: Fonts:	Two-dimensional (2D): PDF417, Data Matrix, QR JPEG (jpg),TIFF (tif), Bitmap (bmp), PNG (png) ge embossable topcoat. Available in clear and random or registered custom holographics in approximately 0.03 in. (0.081 cm) of card edges. Card-to-card placement tolerance of less than 0.032 in. Size/Thickness: 2.06 in. x 3.31 in. (5.23 cr nil thick Up to 8 lines of embossing Front, rear or both sides of the card V vertical: 0.16 in. (4 mm) to 1.46 in. (37.1 mm) from bottom edge of card to center line Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line It2-character wheel accomodates multiple fonts and special characters Standard: OCR-A, OCR-B, Standard Gothic, Helvetica, Farrington, Katakana. Special, custom, secure fonts and international language characters Indent a single line or multiple lines 112-character indent wheel accommodates multiple fonts and special characters Standard, outlined, pattern and custom characters including rotated characters Standard, outlined, pattern and custom characters including rotated characters Standard, outlined, pattern and custom characters including rotated character fonts (90°, 180°, or 270°) and shapes letermines and applies the appropriate topping area based on prior embossing in the same production run Vertical: 1.54 in (39.1 mm) measured from bottom edge of the card to uppermost character edge and 0.095 in. (2.4 mm) measured from bottom
DuraGard* Laminate Embossing Indent Printing Secure Indent	Image formats: Full edge-to-ed Placement with x 8.41 cm);1:0 n Capability: Indent printing: Print placement Fonts: Capabilities: Fonts:	Two-dimensional (2D): PDF417, Data Matrix, QR JPEG (jpg),TIFF (tif), Bitmap (bmp), PNG (png) ge embossable topcoat. Available in clear and random or registered custom holographics in approximately 0.03 in. (0.081 cm) of card edges. Card-to-card placement tolerance of less than 0.032 in. Size/Thickness: 2.06 in. x 3.31 in. (5.23 cm and thick Up to 8 lines of embossing Front, rear or both sides of the card t: Vertical: 0.16 in. (4 mm) to 1.46 in. (37.1 mm) from bottom edge of card to center line Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line 112-character wheel accomodates multiple fonts and special characters Standard: OCR-A, OCR-B, Standard Gothic, Helvetica, Farrington, Katakana. Special, custom, secure fonts and international language characters Indent a single line or multiple lines 112-character indent wheel accommodates multiple fonts and special characters Standard, outlined, pattern and custom characters including rotated character fonts (90°, 180°, or 270°) and shapes letermines and applies the appropriate topping area based on prior embossing in the same production run Vertical: 1.54 in (39.1 mm) measured from bottom edge of the card to uppermost character edge and 0.095 in. (2.4 mm) measured from bottom edge of the card to lowermost edge
DuraGard* Laminate Embossing Indent Printing Secure Indent	Image formats: Full edge-to-ed Placement with x 8.41 cm);1:0 n Capability: Indent printing: Print placement Fonts: Capabilities: Fonts:	Two-dimensional (2D): PDF417, Data Matrix, QR JPEG (jpg),TIFF (tif), Bitmap (bmp), PNG (png) ge embossable topcoat. Available in clear and random or registered custom holographics in approximately 0.03 in. (0.081 cm) of card edges. Card-to-card placement tolerance of less than 0.032 in. Size/Thickness: 2.06 in. x 3.31 in. (5.23 cm and thick Up to 8 lines of embossing Front, rear or both sides of the card t: Vertical: 0.16 in. (4 mm) to 1.46 in. (37.1 mm) from bottom edge of card to center line Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line 112-character wheel accomodates multiple fonts and special characters Standard: OCR-A, OCR-B, Standard Gothic, Helvetica, Farrington, Katakana. Special, custom, secure fonts and international language characters Indent a single line or multiple lines 112-character indent wheel accommodates multiple fonts and special characters Standard, outlined, pattern and custom characters including rotated character fonts (90°, 180°, or 270°) and shapes letermines and applies the appropriate topping area based on prior embossing in the same production run Vertical: 1.54 in (39.1 mm) measured from bottom edge of the card to uppermost character edge and 0.095 in. (2.4 mm) measured from bottom edge of the card to lowermost edge
DuraGard* Laminate Embossing Indent Printing Secure Indent Topping	Image formats: Full edge-to-ed Placement with x 8.41 cm); 1.0 n Capability: Indent printing: Print placement Fonts: Capabilities: Fonts: Automatically c	Two-dimensional (2D): PDF417, Data Matrix, QR JPEG (jpg),TIFF (tif), Bitmap (bmp), PNG (png) ge embossable topcoat. Available in clear and random or registered custom holographics in approximately 0.03 in. (0.081 cm) of card edges. Card-to-card placement tolerance of less than 0.032 in. Size/Thickness: 2.06 in. x 3.31 in. (5.23 cm nil thick Up to 8 lines of embossing Front, rear or both sides of the card t: Vertical: 0.16 in. (4 mm) to 1.46 in. (37.1 mm) from bottom edge of card to center line Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line 112-character wheel accomodates multiple fonts and special characters Standard: OCR-A, OCR-B, Standard Gothic, Helvetica, Farrington, Katakana. Special, custom, secure fonts and international language characters Indent a single line or multiple lines 112-character indent wheel accommodates multiple fonts and special characters Standard: OLR-A, OCR-B, Standard Gothic, Helvetica, Farrington, Katakana. Special, custom, secure fonts and international language characters Indent a single line or multiple fonts and special characters Standard; outlined, pattern and custom characters including rotated character fonts (90°, 180°, or 270°) and shapes letermines and applies the appropriate topping area based on prior embossing in the same production run Vertical: 1.54 in (33.1 mm) measured from bottom edge of the card to uppermost character edge and 0.095 in. (2.4 mm) measured from bottom edge of the card to lowermost edge
DuraGard* Laminate Embossing Indent Printing Secure Indent Topping	Image formats: Full edge-to-ed Placement with x 8.41 cm); 1.0 n Capability: Indent printing: Print placement Fonts: Capabilities: Fonts: Automatically c	Two-dimensional (2D): PDF417, Data Matrix, QR JPEG (jpg),TIFF (tif), Bitmap (bmp), PNG (png) ge embossable topcoat. Available in clear and random or registered custom holographics in approximately 0.03 in. (0.081 cm) of card edges. Card-to-card placement tolerance of less than 0.032 in. Size/Thickness: 2.06 in. x 3.31 in. (5.23 cm) and thick Up to 8 lines of embossing Front, rear or both sides of the card t: Vertical: 0.16 in. (4 mm) to 1.46 in. (37.1 mm) from bottom edge of card to center line Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line 112-character wheel accomodates multiple fonts and special characters Standard: OCR-A, OCR-B, Standard Gothic, Helvetica, Farrington, Katakana. Special, custom, secure fonts and international language characters Indent a single line or multiple lines 112-character indent wheel accommodates multiple fonts and special characters Standard; outlined, pattern and custom characters including rotated character fonts (90°, 180°, or 270°) and shapes letermines and applies the appropriate topping area based on prior embossing in the same production run Vertical: 1.54 in (33.1 mm) measured from bottom edge of the card to uppermost character edge and 0.095 in. (2.4 mm) measured from bottom edge of the card to lowernost edge Horizontal: 3.08 in. (78.3 mm) measured from left edge of card to final character edge and 0.24 in. (6.1 mm) measured from left edge of card to first character edge uported: Preprinted labels (see Datacard specification document 530202-001) Minimum: Height: 0.625 in. (L5.9 mm), Width: 1.0 in. (25.4 mm)
DuraGard* Laminate Embossing Indent Printing Secure Indent Topping	Image formats: Full edge-to-ed Placement with x 8.41 cm); 1.0 n Capability: Indent printing: Print placement Fonts: Capabilities: Fonts: Automatically of Label types sup Label Size:	Two-dimensional (2D): PDF417, Data Matrix, QR JPEG (jpg),TIFF (tiff), Bitmap (bmp), PNG (jng) ge embossable topcoat. Available in clear and random or registered custom holographics in approximately 0.03 in. (0.081 cm) of card edges. Card-to-card placement tolerance of less than 0.032 in. Size/Thickness: 2.06 in. x 3.31 in. (5.23 cm nil thick Up to 8 lines of embossing Front, rear or both sides of the card t: Vertical: 016 in. (4 mm) to 1.46 in. (37.1 mm) from bottom edge of card to center line Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line 112-character wheel accomodates multiple fonts and special characters Standard: OCR-A, OCR-B, Standard Gothic, Helvetica, Farrington, Katakana. Special, custom, secure fonts and international language characters Standard: OCR-A, OCR-B, Standard Gothic, Helvetica, Farrington, Katakana. Special, custom, secure fonts and international language characters Standard: OCR-A, OCR-B, Standard Gothic, Helvetica, Farrington, Katakana. Special, custom, secure fonts and international language characters Standard, outlined, pattern and custom characters including rotated character fonts (90°, 180°, or 270°) and shapes letermines and applies the appropriate topping area based on prior embossing in the same production run Vertical: 1.54 in (33.1 mm) measured from bottom edge of the card to uppermost character edge and 0.095 in. (2.4 mm) measured from bottom edge of the card to lowermost edge Horizontal: 3.08 in. (78.3 mm) measured from left edge of card to final character edge and 0.24 in. (6.1 mm) measured from left edge of card to firs character edge ported: Preprinted labels (see Datacard specification document 530202-001) Minimum: Height: 10 in. (25.4 mm), Width: 10 in. (25.4 mm)
DuraGard* Laminate Embossing Indent Printing Secure Indent Topping	Image formats: Full edge-to-ed Placement with x 8.41 cm); 1.0 n Capability: Indent printing: Print placement Fonts: Capabilities: Fonts: Automatically of Label types sup Label Size:	Two-dimensional (2D): PDF417, Data Matrix, QR JPEG (jpg),TIFF (tif), Bitmap (bmp), PNG (png) ge embossable topcoat. Available in clear and random or registered custom holographics in approximately 0.03 in. (0.081 cm) of card edges. Card-to-card placement tolerance of less than 0.032 in. Size/Thickness: 2.06 in. x 3.31 in. (5.23 cm and thick Up to 8 lines of embossing Front, rear or both sides of the card t: Vertical: 0.16 in. (4 mm) to 1.46 in. (371 mm) from bottom edge of card to center line Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line 112-character wheel accomodates multiple fonts and special characters Standard: OCR-A, OCR-B, Standard Gothic, Helvetica, Farrington, Katakana. Special, custom, secure fonts and international language characters Indent a single line or multiple lines 112-character indent wheel accommodates multiple fonts and special characters Standard, outlined, pattern and custom characters including rotated character fonts (90°, 180°, or 270°) and shapes letermines and applies the appropriate topping area based on prior embossing in the same production run Vertical: 1.54 in (39.1 mm) measured from bottom edge of card to uppermost character edge and 0.095 in. (2.4 mm) measured from bottom edge of the card to lowermost edge Horizontal: 3.08 in. (78.3 mm) measured from left edge of card to final character edge and 0.24 in. (6.1 mm) measured from left edge of card to final character edge and 0.24 in. (6.1 mm) measured from left edge of card to fins character edge ported: Preprinted labels (see Datacard specification document 530202-001) Minimum: Height: 10.625 in. (15.9 mm), Width: 3.0 in. (76.4 mm) Maximum: Height: 10.625 in. (15.9 mm), Width: 3.0 in. (76.4 mm)
DuraGard* Laminate Embossing Indent Printing Secure Indent Topping	Image formats: Full edge-to-ed Placement with x 8.41 cm); 1.0 n Capability: Indent printing: Print placement Fonts: Capabilities: Fonts: Automatically of Label types sup Label Size:	Two-dimensional (2D): PDF417, Data Matrix, QR JPEG (jpg),TIFF (tif), Bitmap (bmp), PNG (png) ge embossable topcoat. Available in clear and random or registered custom holographics in approximately 0.03 in. (0.081 cm) of card edges. Card-to-card placement tolerance of less than 0.032 in. Size/Thickness: 2.06 in. x 3.31 in. (5.23 cm and thick Up to 8 lines of embossing Front, rear or both sides of the card t: Vertical: 0.16 in. (4 mm) to 1.46 in. (37.1 mm) from bottom edge of card to center line Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line Horizontal: 0.010 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line 112-character wheel accomodates multiple fonts and special characters Standard: OCR-A, OCR-B, Standard Gothic, Helvetica, Farrington, Katakana. Special, custom, secure fonts and international language characters Standard; outlined, pattern and custom characters including rotated character fonts (90°, 180°, or 270°) and shapes letermines and applies the appropriate topping area based on prior embossing in the same production run Vertical: 1.54 in (39.1 mm) measured from bottom edge of the card to uppermost character edge and 0.095 in. (2.4 mm) measured from bottom edge of the card to lowernost edge Horizontal: 3.08 in. (78.3 mm) measured from left edge of card to final character edge and 0.24 in. (6.1 mm) measured from left edge of card to firs character edge uported: Preprinted labels (see Datacard specification document 530202-001) Minimum: Height: 0.025 in. (15.9 mm), Width: 1.0 in. (76.4 mm) Maximum: Height: 0.025 in. (15.9 mm), Width: 3.0 in. (76.2 mm) ti: 10 in. (25.4
DuraGard* Laminate Embossing Indent Printing Secure Indent Topping Pre-Printed Label Affixing	Image formats: Full edge-to-ed Placement with x 8.41 cm); 1.0 n Capability: Indent printing: Print placement Fonts: Capabilities: Fonts: Automatically of Label types sup Label types sup Label Placement	Two-dimensional (2D): PDF417, Data Matrix, QR JPEG (jpg),TIFF (tif), Bitmap (bmp), PNG (png) ge embossable topcoat. Available in clear and random or registered custom holographics in approximately 0.03 in. (0.081 cm) of card edges. Card-to-card placement tolerance of less than 0.032 in. Size/Thickness: 2.06 in. x 3.31 in. (5.23 cm nil thick Up to 8 lines of embossing Front, rear or both sides of the card t: Vertical: 0.16 in. (4 mm) to 1.46 in. (37.1 mm) from bottom edge of card to center line Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line 112-character wheel accomodates multiple fonts and special characters Standard: OCR-A, OCR-B, Standard Gothic, Helvetica, Farrington, Katakana. Special, custom, secure fonts and international language characters Indent a single line or multiple lines 112-character indent wheel accommodates multiple fonts and special characters Standard: OLR-A, OCR-B, Standard Gothic, Helvetica, Farrington, Katakana. Special, custom, secure fonts and international language characters Indent a single line or multiple fonts and special characters Standard: outlined, pattern and custom characters including rotated character fonts (90°, 180°, or 270°) and shapes letermines and applies the appropriate topping area based on prior embossing in the same production run Vertical: 1.54 in (33.1 mm) measured from bottom edge of the card to uppermost character edge and 0.095 in. (2.4 mm) measured from bottom edge of the card to lowermost edge Horizontal: 3.08 in. (78.3 mm) measured from left edge of card to final character edge and 0.24 in. (6.1 mm) measured from left edge of card to first character edge uported: Preprinted labels (see Datacard specification document 530202-001) Minimum: Height: 0.625, in. (15.9 mm), Width: 10 in. (25.4 mm) Maximum: Height: 10 in. (25.4 mm), Width: 3.0 in. (76.2 mm) t: 10 in. (25.4 mm) from the bottom of the card 0.10
DuraGard* Laminate Embossing Indent Printing Secure Indent Topping Pre-Printed Label Affixing	Image formats: Full edge-to-ed Placement with x 8.41 cm); 1.0 n Capability: Indent printing: Print placement Fonts: Capabilities: Fonts: Automatically of Label types sup Label types sup Label Placement	Two-dimensional (2D): PDF417, Data Matrix, QR JPEG (199),TIFF (tif), Bitmap (bmp), PNG (png) ge embossable topcoat. Available in clear and random or registered custom holographics in approximately 0.03 in. (0.081 cm) of card edges. Card-to-card placement tolerance of less than 0.032 in. Size/Thickness: 2.06 in. x 3.31 in. (5.23 cm and thick Up to 8 lines of embossing Front, rear or both sides of the card E: Vertical: 0.16 in. (4 mm) to 1.46 in. (371 mm) from bottom edge of card to center line Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line 12-character wheel accommodates multiple fonts and special characters Standard: OCR-A, OCR-B, Standard Gothic, Helvetica, Farrington, Katakana. Special, custom, secure fonts and international language characters Indent a single line or multiple lines 12-character indent wheel accommodates multiple fonts and special characters Standard, outlined, pattern and custom characters including rotated character fonts (90°, 180°, or 270°) and shapes letermines and applies the appropriate topping area based on prior embossing in the same production run Vertical: 1.54 in (39.1 mm) measured from left edge of card to uppermost character edge and 0.095 in. (2.4 mm) measured from bottom edge of the card to lowermost edge Horizontal: 3.08 in. (78.3 mm) measured from left edge of card to final character edge and 0.24 in. (6.1 mm) measured from left edge of card to final character edge and 0.24 in. (6.1 mm) measured from left edge of card to final character edge and 0.24 in. (6.1 mm) measured from left edge of card to final character edge inported: Preprinted labels (see Datacard specification document 530202-001) Minimum: Height: 0.625 in. (15.9 mm), Width: 3.0 in. (76.4 mm) Maximum: Height: 0.625 in. (15.9 mm), Width: 3.0 in. (76.4 mm) Maximum: Height: 0.625 in. (15.9 mm), Width: 3.0 in. (76.4 mm) Maximum: Height: 0.625 in. (15.9 mm), Width:
DuraGard* Laminate Embossing Indent Printing Secure Indent Topping Pre-Printed Label Affixing	Image formats: Full edge-to-ed Placement with x 8.41 cm); 1.0 n Capability: Indent printing: Print placement Fonts: Capabilities: Fonts: Automatically of Label types sup Label Size: Label Placement Bar Code Formatical	Two-dimensional (2D): PDF417, Data Matrix, QR JPEG (jpg),TIFF (tif), Bitmap (bmp), PNG (png) ge embossable topcoat. Available in clear and random or registered custom holographics in approximately 0.03 in. (0.081 cm) of card edges. Card-to-card placement tolerance of less than 0.032 in. Size/Thickness: 2.06 in. x 3.31 in. (5.23 cr all thick Up to 8 lines of embossing Front, rear or both sides of the card t: Vertical: 0.16 in. (4 mm) to 1.46 in. (37.1 mm) from bottom edge of card to center line Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line 112-character wheel accomodates multiple fonts and special characters Standard: OCR-A, OCR-B, Standard Gothic, Helvetica, Farrington, Katakana. Special, custom, secure fonts and international language characters Indent a single line or multiple lines 112-character indent wheel accommodates multiple fonts and special characters Standard, outlined, pattern and custom characters including rotated character fonts (90°, 180°, or 270°) and shapes letermines and applies the appropriate topping area based on prior embossing in the same production run Vertical: 1.54 in (39.1 mm) measured from beft edge of card to inclaracter edge and 0.095 in. (2.4 mm) measured from bottom edge of the card to lowermost edge Horizontal: 3.08 in. (78.3 mm) measured from left edge of card to final character edge and 0.095 in. (2.4 mm) measured from bottom character edge ported: Preprinted labels (see Datacard specification document 530202-001) Minimum: Height: 10.625 in. (15.9 mm), Width: 10 in. (25.4 mm) Maximum: Height: 0.625 in. (15.9 mm), Width: 3.0 in. (76.2 mm) ti. 10 in. (25.4 mm) from the top of the card 0.125 in. (3.15 mm) from the top of the card 0.125 in. (3.15 mm) from the top of the card 0.125 in. (3.15 mm) from the top of the card 0.125 in. (3.175 mm) from the top of the card 0.125 in. (3.175 mm) from the top of the card 0.125 in. (2.54 mm) from the top of the card 0.125 in. (2.54 mm) from the top of the card 0.125 in.
DuraGard* Laminate Embossing Indent Printing Secure Indent Topping Pre-Printed Label Affixing	Image formats: Full edge-to-ed Placement with x 8.41 cm); 1.0 n Capability: Indent printing: Print placement Fonts: Capabilities: Fonts: Automatically of Label types sup Label Size: Label Placement Bar Code Formatical	Two-dimensional (2D): PDF417, Data Matrix, QR JPEG (199),TIFF (tif), Bitmap (bmp), PNG (png) ge embossable topcoat. Available in clear and random or registered custom holographics in approximately 0.03 in. (0.081 cm) of card edges. Card-to-card placement tolerance of less than 0.032 in. Size/Thickness: 2.06 in. x 3.31 in. (5.23 cm ill thick Up to 8 lines of embossing Front, rear or both sides of the card E: Vertical: 0.16 in. (4 mm) to 1.46 in. (371 mm) from bottom edge of card to center line Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line 112-character wheel accomodates multiple fonts and special characters Standard: OCR-A, OCR-B, Standard Gothic, Helvetica, Farrington, Katakana. Special, custom, secure fonts and international language characters Indent a single line or multiple lines 112-character indent wheel accommodates multiple fonts and special characters Standard, outlined, pattern and custom characters including rotated character fonts (90°, 180°, or 270°) and shapes letermines and applies the appropriate topping area based on prior embossing in the same production run Vertical: 1.54 in (39.1 mm) measured from left edge of card to tuppermost character edge and 0.095 in. (2.4 mm) measured from bottom edge of the card to lowermost edge Horizontal: 3.08 in. (78.3 mm) measured from left edge of card to final character edge and 0.24 in. (6.1 mm) measured from left edge of card to final character edge and 0.24 in. (6.1 mm) measured from left edge of card to fins character edge proted: Preprinted labels (see Datacard specification document 530202-001) Minimum: Height: 10.625 in. (15.9 mm), Width: 3.0 in. (76.4 mm) Maximum: Height: 10.625 in. (15.9 mm), Width: 3.0 in. (76.4 mm) Maximum: Height: 10.625 in. (15.9 mm), Width: 3.0 in. (76.4 mm) Maximum: Height: 10.625 in. (15.9 mm), Width: 3.0 in. (76.4 mm) Maximum: Height: 10.625 in. (15.9 mm), Width: 3.0 in. (76.4 mm) Maximum: Height: 10.625 in. (15.9 mm), Width: 3.0 in. (76.4 mm) Maximum: Height
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DuraGard* Laminate Embossing Indent Printing Secure Indent Topping Pre-Printed Label Affixing Bar Code Scanning	Image formats: Full edge-to-ed Placement with x 8.41 cm);10 n Capability: Indent printing: Print placement Fonts: Capabilities: Fonts: Automatically of Label types sup Label Size: Label Placement Bar Code Forma Minimum Heigh Data Matrix: Inii Narrowest Widt UPC 0.015 in. (C	Two-dimensional (2D): PDF417, Data Matrix, QR JPEG (jpg),TIFF (tif), Bitmap (bmp), PNG (png) ge embossable topcoat. Available in clear and random or registered custom holographics in approximately 0.03 in. (0.081 cm) of card edges. Card-to-card placement tolerance of less than 0.032 in. Size/Thickness: 2.06 in. x 3.31 in. (5.23 cr all thick Up to 8 lines of embossing Front, rear or both sides of the card E: Vertical: 0.16 in. (4 mm) to 1.46 in. (371 mm) from bottom edge of card to center line Horizontal: 0.10 in. (2.5 mm) to 3.2 in. (83.2 mm) from left edge of card to center line 12-character wheel accommodates multiple fonts and special characters Standard: OCR-A, OCR-B, Standard Gothic, Helvetica, Farrington, Katakana. Special, custom, secure fonts and international language characters Indent a single line or multiple lines 12-character indent wheel accommodates multiple fonts and special characters Standard, outlined, pattern and custom characters including rotated character fonts (90°, 180°, or 270°) and shapes letermines and applies the appropriate topping area based on prior embossing in the same production run Vertical: 1.54 in (331 mm) measured from bottom edge of the card to uppermost character edge and 0.095 in. (2.4 mm) measured from bottom edge of the card to lowermost edge Horizontal: 3.08 in. (78.3 mm) measured from left edge of card to final character edge and 0.24 in. (6.1 mm) measured from left edge of card to final character edge and 0.24 in. (6.1 mm) measured from left edge of card to first character edge 10.10 in. (2.54 mm) from the topt of the card 10.10 in. (2.54 mm) from the topt of the card 10.10 in. (2.54 mm) from the topt of the card 10.10 in. (2.54 mm) from the topt of the card 10.10 in. (2.54 mm) from the topt of the card 10.10 in. (2.54 mm) from the topt of the card 10.10 in. (2.54 mm) from the topt of the card 10.10 in. (2.54 mm) from the topt of the card 10.10 in. (2.54 mm) from the topt of the card 10.10 in. (2.54 mm) from the topt of the card 10.10 i
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DATACARD[®] MX1100[™] CARD ISSUANCE SYSTEM



KEY TECHNOLOGIES

- Magnetic Stripe Encoding
- Smart Card Personalization
- Single-Step Color Printing
- Graphics Printing
- Durable Graphics Printing
- Laser 325
- Basic Topcoat
- Datacard® DuraGard® Laminate
- Embossing/Indent Printing
- Secure Indent
- Topping
- Label Affixing
- Bar Code Scanning
- Vision Verification Gen 2
- Datacard® MXD110™ Card Delivery System
- Datacard®MXi111™ Envelope
 Insertion System

Affordable and secure centralized card issuance

Take your card program to the next level of efficiency for a minimal capital investment. The Datacard® MX1100[™] card issuance system helps card issuers take an affordable first step into centralized card issuance. The system offers a unique combination of low cost-per-card and proven Datacard quality, reliability and ease-of-use for expanding card programs.

- A choice of pre-configured systems. The MX1100 system is available in several value-priced fixed configurations with or without smart card capabilities, allowing you the flexibility to choose the configuration that meets the specific needs of your card program.
- **Proven design from a trusted partner.** Based on the industry leading Datacard® central issuance platforms, the MX1100 system consistently demonstrates superior productivity and security in incredibly demanding issuance environments worldwide. Multiple physical and logical security features reduce the risk of fraud and theft without slowing the issuance process.
- **Metal card engraving.** The MX1100 system offers customers the ability to produce metal engraved cards or plastic financial cards within the same system, providing a productive solution that can serve as both a standard personalization system as well as a unique program differentiator. Metal cards provide a strong brand statement within high value or elite card programs. The MX1100 system can now service both plastic and metal card types. See Datacard® MX1100[™] card issuance system for metal card personalization overview datasheet for more information.
- A complete card-to-envelope solution. The Datacard® MXD110[™] card delivery and Datacard® MXi111[™] envelope insertion systems seamlessly integrate with the MX1100 system to enhance your overall card operations. In one automated process, you can affix cards and add marketing insertions into an envelope for a complete card-to-envelope solution.



The MX1100 system is available in several value-priced, fixed configurations that are ideal for issuing highly secure national ID, driver's licenses, healthcare cards, membership, credit, debit, prepaid financial and metal core cards.



KEY TECHNOLOGIES

Physical and Logical Security

The MX1100 system offers multiple lines of defense to help reduce the risk of fraud and theft. Logical safeguards protect cardholder and production data, while physical security features limit access to the system controller, card stock and supplies.

System Controller Software

Centralized controls and an intuitive interface allows operators to manage all system functions — data input, job setups, card layout design, production environment, error/ remake management and audit/reconciliation management.

Magnetic Stripe Encoding

Write and verify up to three tracks of data simultaneously on ID-1 or mini-cards. Flexible mounting of encoding heads accommodate a wide range of encoding needs. The system provides read/lookup and read/ verify functions to automate downstream personalization. It supports all ISO, AAMVA and JIS encoding formats with common coercivity requirements.

Smart Card Personalization

Personalize smart cards with a flexible, high-quality and secure system. The system architecture accomodates contact and contactless smart cards enabling issuers to accomodate many card types.

Laser 325

State-of-the-art fiber optic laser engraving technology delivers exceptional quality. It delivers variable-size photos, alphanumeric text, 1D and 2D bar codes, micro-engraving, black-and-white logos and other graphical elements at greater than 400 dpi gray scale resolution. The system allows engraving of both the front and backside of the card and provides standard CLI and/or optional MLI or 3D tilted image engraving for enhanced visual security.

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Single-Step Color Printing

Print full-color, 300 dpi photos, graphics, logos and images directly on the card using dye diffusion thermal transfer (D2T2) technology. The system allows for near edgeto-edge printing and provides a low-cost color output in a compact footprint. The single-step color printing package includes your choice of basic topcoat or DuraGard laminate.

Graphics Printing

Thermal technology enables card issuers to print 300 dpi monochrome, custom graphics, including text, logos and bar codes. Near edge-to-edge printing and precise placement tolerances deliver excellent results on PVC cards. Flexible configurations allow customers to print different colors on a single side, or print front and back graphics in a single pass.

Durable Graphics Printing Module

Personalize long-lasting, high-resolution 600 dpi monochrome graphics — such as text, logos, bar codes and other card elements — on PVC cards using thermal transfer UV-cured ribbon technology. Topcoat application is not required.

Basic Topcoat

Protect color or graphics printed images with a true edge-to-edge layer of clear or holographic topcoat. A variety of application rollers are available to meet card program needs.

DuraGard® Lamination

Issuers who require extended card durability and security can replace basic topcoat with DuraGard laminate — a polyester patch that offers extra protection. Laminate supplies are available in holographic and a variety of clear laminate sizes.

Secure Indenting

Adds tactile elements to national IDs, driver's licenses and other ID cards to help prevent fraud or alteration. The secure indent technology provides variable personalization and supports multiple fonts including a wide range of alpha numeric, special or custom characters. These indent characters can be positioned vertically or horizontally on the front, rear or both sides of the card.

KEY TECHNOLOGIES

Embossing/Indent Printing

Personalize cards using high-quality, ISO-compliant embossing and indent printing on front, back or both sides of cards. The unique design provides consistent character-to-character spacing, text height and alignment. Issuers can utilize multiple fonts and a wide range of characters, including Braille and security fonts.

Topping

Colored topping material increases readability of embossed characters. The system delivers consistent, high-quality topping, card after card — exceeding ISO standards.

Label Affixing

Increase production efficiency by affixing adhesive labels to cards for security, activation or promotional programs.

CONFIGURATIONS

The MX1100 offers flexible options with or without smartcard. Choose the configuration that meets your card production needs. For more information on the configuration options and their included technologies, refer to the **MX1100 Systems Configurations Overview Guide** available on PartnerPage

	MX1100 FIGURATIONS	Target Applications
DG	Durable Graphics	Financial Credit, Debit
DGS	Durable Graphics Smart Card Enabled	Financial Credit, Debit
G	Graphics	Drivers License, Health- care, Gift Credit, Direct Mail, Membership
GS	Graphics Smart Card Enabled	National ID, Healthcare, Drivers License, Flat Credit, Gift
E	Embossing	Financial Credit, Debit, Gift
ES	Embossing Smart Card Enabled	EMV, Credit, Debit, Gift
L	Laser	National ID, Social Se- curity
LS	Laser Smart Card Enabled	Natioanl ID, Drivers License

	L CARD MX1100 IGURATIONS	Target Applications
ML	Metal Card	Financial Credit, Debit
MLS	Metal Card Smart Card Enabled	Financial Credit, Debit
MLP	Metal & Plastic Card	Financial Credit, Debit
MLPS	Metal & Plastic Card Smart Card Enabled	Financial Credit, Debit

For more information on the Metal Card Configuration options, refer to the **MX1100 Metal Card Datasheet** availbale on PartnerPage.

Bar Code Scanning

For additional security, the system can read a variety of preprinted serial numbers, document control numbers and bar codes used to control and monitor secure card stocks providing an additional layer of fraud prevention.

Vision Verification Gen 2

Automate your quality process with the inline quality checking option. It verifies a wide variety of pre-printed and personalized elements on the front and/or back of cards to help reduce the chance of errors, improve data integrity and increase efficiency.