Logical Access
How to Order Guide

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Document History

Date	Author	Description	Version
02/20/17	GW	New product introduction OK5023.	E.1
10/28/16	CT	Updated OMNIKEY descriptions.	D.9
8/10/16	CT	Updated OMNIKEY Smart Readers part numbers.	D.8
4/6/16	CT	New product introduction OK5022, and reader EOL updates.	D.7
11/10/15	DM/CT	Removed Crescendo Ordering Secure Identity Object Programming option. OMNIKEY update.	D.6
8/24/15	DM	Added SIM punched options in section 400 – Combo Contact and Contactless Ordering Guide. Removed Crescendo C800	D.5
03/26/15	CT	OMNIKEY contact card readers transition.	D.4
02/17/15	GL	Included prominent Laser Engraving customer notification	D.3

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Overview

HID Global offers a variety of logical access and converged solutions, enabled by the use of a single credential for both physical and logical access. HID's primary product lines making up this solution include

- Hardware components: ActivID®, iCLASS®, iCLASS SE®, Crescendo® and OMNIKEY®
- Software components: HID Identity Assurance product portfolio including naviGO®, ActivClient™ and ActivID CMS.

No matter where you are in your efforts to improve risk management and physical/data security processes, there is an HID solution to help you.

This How to Order Guide focuses on the hardware product lines described above. For the software components, reference HID Identity Assurance: https://www.hidglobal.com/identity-assurance.

Visit https://www.hidglobal.com *Product* section for more information.

Announcement regarding Credentials Marking

As a part of our commitment to continuous enhancements of world-class products and solutions, HID Global is transitioning to the most innovative card marking technology available.

Effective immediately, HID Global is moving from ink jet card marking to the new laser engraving card marking technology for all Genuine HID® cards, fobs and authentication tokens. This state-of-the-art laser engraving technology will result in a more appealing look and feel and reduce the ecological footprint of card production.

All relevant orders in the United States and Canada are affected immediately.

Key benefits:

- Marking quality and durability of the cards will be enhanced and more consistent
- New engraving technology reflects HID Global's commitment to sustainability by eliminating the use of solvents
- Improved Proof of Authenticity since engraved markings cannot be removed or modified.
- The enhanced design will be available at no additional charge. The laser-engraving surcharge for Genuine HID Proximity and Contactless Credentials will be removed in November.

Depending on the fulfillment center, customers may receive either inkjet or laser marked cards during the transition period of October 2014 – June 2016. All ID1 cards (Clamshell Cards included), key fobs (including Microtags, Keytags and Microprox) and authentication tokens will have the enhanced laser engraving design immediately.

Notes:

- The numbering scheme and part number will not change. Please contact your sales representative to see the new design and get sample cards.
- Due to the 3D nature of laser engraved markings, printing over these markings is not recommended as it may impact print quality.
- For all relevant Credentials ordered and/or shipped out of North America, the laser-etched version supersedes all ink jet card part numbers.
- For further details on the printing areas, please contact HID Global.

Please contact HID Customer Service or Sales Representative if you have additional questions regarding this notice.

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Cards

Crescendo

- A powerful embedded contact smart chip with cryptographic co-processor is used for logical, physical access control and enables Crescendo to perform as a PKI card in both Microsoft® and heterogeneous IT environments. To meet the needs of current physical access control customers, choose to customize Crescendo with the Physical Access Control technologies: Prox (HID, Indala® and others), iCLASS, MIFARE®, multi-technology combinations and magnetic stripe.
- Crescendo Smart Cards are standards based.
- They work with all PC/SC based smart card readers (including built-in readers in laptops) available on the market. In addition, Crescendo Smart Cards are supported in many third party applications.
- The Crescendo card is made of highly durable composite plastic. Customize Crescendo cards with pre-printed graphics and anti-counterfeiting elements. Fully personalize Crescendo cards with variable data – photos, text and barcodes.
- Crescendo products C1100 and C1150 are optimized, tested and supported by the OMNIKEY Reader product line.

Crescendo C1100

- Smart Card solution for the ActivIdentity ActivID CMS (Software Version).
- Available with iCLASS, MIFARE Classic, MIFARE DESFire and Prox (HID or Indala) as multi-technology cards.

Crescendo C1150

- Smart Card solution that includes a mini-driver for use with Microsoft CryptoAPI applications, as well as ActivIdentity ActivClient.
- Available with iCLASS, MIFARE Classic, MIFARE DESFire and Prox (HID or Indala) as multi-technology cards.
- Replace Crescendo C200

iCLASS and iCLASS SE

Optimized to make physical access control more powerful, iCLASS 13.56 MHz read/write contactless smart card technology provides versatile interoperability and supports multiple applications such as biometric authentication, cashless vending and numerous other applications. iCLASS fully supports PC log on security as part of the HID's iCLASS on the Desktop solution.

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Prox

With over 200 million credentials in use around the world, HID is the market leader in contactless cards for access control. Our global reputation for delivering quality, value, partnership, and service excellence to our customers is unsurpassed in the security Industry. For security managers, dealers, integrators and OEMs, HID Prox cards are recognized as the industry standard for physical access control. Featuring 125 kHz RFID technology HID Prox products are robust, affordable, and seamlessly integrate with access control systems. HID Prox cards fully support PC log on security as part of the HID's Prox on the Desktop solution.

DisplayCard Platforms

The ActivID DisplayCard platforms offers a highly secure converged solution for securing access to the cloud, data and the door – Suitable for corporate ID and secure online banking applications.

DisplayCard

- Authenticator devices for logical access
- Available with optional contact chip Crescendo C1100 for ActivID CMS or Crescendo C1150 solution that includes a mini-driver for use with Microsoft CryptoAPI applications, as well as ActivID ActivClient.

Contactless DisplayCard

- Authenticator devices for logical access
- Available with iCLASS, and Prox (HID or Indala) as multi-technology cards.
- As part of future feature, the Contactless DisplayCard product will support an optional contact chip Crescendo C1100 for ActivID CMS or Crescendo C1150 solution that includes a mini-driver for use with Microsoft CryptoAPI applications, as well as ActivID ActivClient.

Readers

The OMNIKEY Smart Card Reader leverages HID industry-leadership in all forms of identity credentials to assist you in choosing the right smart card reader for your solution.

OMNIKEY Smart Card Readers are PC-connected readers for contact-based and contactless smart cards. OMNIKEY Smart Card Readers are available in various form factors (for example, desktop, laptop or mobile use), and connector type (for example, serial or USB). In addition, drivers are available for operating system support.

In addition to the standard products, OMNIKEY Smart Card Readers have a defined set of customization options (for example, customized housing colors, logo prints or labels). The customization options are described in this How To Order Guide.

Basics of Ordering Cards

Each part number consists of a base number to indicate the type of credential, and a number or letter to indicate each credential option. Each credential has a standard part number which includes default options, as indicated on the attached credential guides. When an order is placed for a credential, the base number and all options must be specified. If you require any options that are different from the default options, you must indicate those options when placing the order. Complete all part numbers for HID's order entry system acceptance.

Include the following information for all orders.

Reader Information

- BASE MODEL NUMBER
- STYLE
- READ RANGE
- TYPE
- COLOR
- OUTPUT FORMAT (reader's format or format number must also be given at time of order)

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Credential Information

Base Part Number (all Credentials listed are delivered with Composite 40% Polyester / 60% PVC for long life applications)

iCLASS Capacity Size and Allocation

0 - 2k Bits (256 Bytes) with 2 Application Areas

1 -16k Bits (2k Bytes) with 2 Application Areas

2 - 16k Bits (2k Bytes) with 16 Application Areas

3 - 32k Bits (4K Bytes) Application areas 16k/2+16k/1

4 - 32k Bits (4K Bytes) Application areas 16k/16+16k/1

Programming

Programming indicates whether the credential is programmed at the HID factory by you with an HID iCLASS card programmer. If the credential is ordered non-programmed, an HID iCLASS card programmer must be used for programming. (Contact an HID sales representative for iCLASS card programmer eligibility).

Second Contactless Technology Programming

H - HID Proximity (Specify Programming Information)

E - EM (Fixed Sequential Programming)

T - HITAG II (Programming not available)

D - Indala Proximity

C - Casi-Rusco Proximity (Fixed Sequential)

F - MIFARE DESFire (Specify Programming)

M - MIFARE (Specify Programming)

MIFARE Capacity Size

MIFARE 1K Bytes or 4K Bytes

MIFARE DESFire EV1 Capacity Size

8K Bytes

Contact Chip and Embeddable Technology

- Crescendo

  Crescendo C1100 - For use with HID ActivID CMS: Software version

  Crescendo C1150 - For use with Microsoft Smart Card Base CSP and ActivIdentity ActivClient
- Embeddable - Must specify contact chip required. Consult your account manager for current availability and contact chip codes

Front Packaging - Indicates standard or custom artwork and type of finish.

Back Packaging - Indicates standard or custom artwork and type of finish.

iCLASS Credential Numbering - Internal 13.56 MHz programmed number and visible external credential number.

Slot Punch

Optional 125 kHz Proximity or Wiegand Credential Numbering - Internal 125 kHz Proximity or Wiegand programmed number and visible external credential number.

Custom Artwork Credential Information

Custom Artwork Number (Call your Customer Service Representative for a custom artwork number)

Credential Programming Information

Bit Format(s)

Facility Code(s)

Internal and External Start Numbers

Internal PIN Code (Length: 2 – 12 Digits)

SIO® (Secure Identity Object) or Standard Programming

Any Special Instruction

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Cards

Contact and Contactless Combo Cards

Crescendo credentials are designed for combined physical and logical access control. The Crescendo card is made of highly durable composite plastic and includes the contactless and/or Prox technologies necessary to support your Physical Access Control Systems (PACS). Include Magnetic stripe technology and personalize Crescendo cards with a photo ID, barcode or anti-counterfeiting element. Ensure to check each option with the appropriate values to fulfill a completed order form.

401100 - Crescendo Ordering Guide

Base Model: ☒ 401100 - Crescendo C1100 – ActivIdentity ActivID CMS Software

Order minimum quantities of 25. Optionally, program the C1100 as an SR card (example, both SIO + Standard format for backwards compatibility).

Contactless Technology *(Check One). Call HID Customer Service if requiring other technologies.*

- ☐ 0 - None - Contact only card (No physical access)
- ☐ 2 - 13.56 MHz iCLASS 32kb Only
- ☐ 4 - 13.56 MHz MIFARE 4KB Only
- ☐ 6 - 13.56 MHz MIFARE DESFire EV1 8KB Only
- ☐ A - Multi-Tech 13.56 MHz iCLASS 32 kb and 125 kHz Prox (HID, Indala, or Casi)
- ☐ C - Multi-Tech 13.56 MHz MIFARE 4KB and 125 kHz Prox (HID, Indala, or Casi)
- ☐ F - Multi-Tech 13.56 MHz iCLASS 32kb + MIFARE 4KB
- ☐ G - Multi-Tech 13.56 MHz MIFARE DESFire EV1 8KB and Prox - 125 kHz HID
- ☐ H - Multi-Tech 13.56 MHz iCLASS 32kb + MIFARE DESFire EV1 8KB
- ☐ J - Multi-Tech 13.56 MHz iCLASS 32kb + MIFARE DESFire EV1 8KB - 125 kHz HID
- ☐ M - Combo 13.56 MHz LEGIC Prime 1024 and 125 kHz Prox (HID, Indala, or Casi)
- ☐ T - Multi-Tech 13.56 MHz iCLASS 32kb + MIFARE 4KB - 125 kHz HID
- ☐ U - Multi-Tech 13.56 MHz MIFARE 4KB + MIFARE DESFire EV1 8K
- ☐ X - 13.56 MHz Seos 16 KB and 125 kHz Prox (HID, Indala, or Casi)
- ☐ Y - 13.56 MHz Seos 8 KB
- ☐ Z - 13.56 MHz Seos 8 KB and 125 kHz Prox (HID, Indala, or Casi)

Option

- ☐ M - Standard Three Track High Coercivity Magstripe (ISO 7811-6)
- ☐ S - SIM Punched card (only use "0" in the "Contactless Technology Section" in this case)

Option - Secure Identity Object Programming

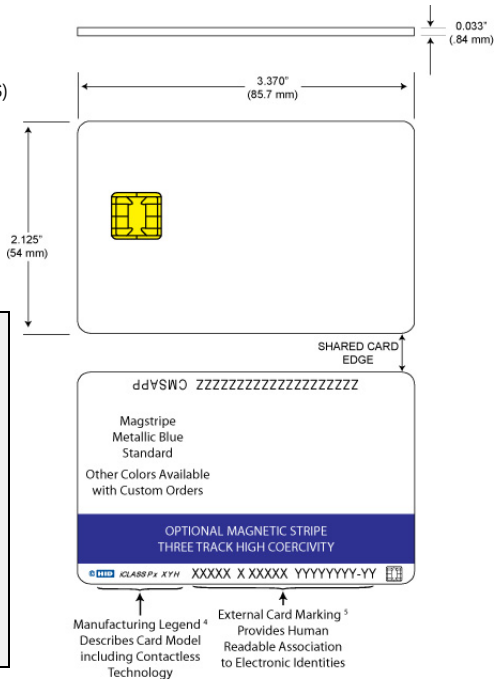
- ☐ H - Programmed with Security Identity Object (SIO): Dual Payload (Support SIO as well as Standard data format – only for iCLASS)
- ☐ P - Programmed with Security Identity Object (SIO)

Option - Custom Artwork[6]

☐ _____ (*Specify Artwork Number – Refer to the Custom Artwork Forms for new artwork*)

From the above options, enter your final card options. Examples: 4011000 (for card without magnetic stripe and no physical access technology) or 4011006M (for card with magnetic stripe and MIFARE DESFire EV1 8KB).

Final Part Number	401100				-	(Options)



Configuration and Programming (required for order)

External Marking Technology *(Check One)*

☐ Inkjet[10] ☐ Laser[8]

iCLASS Memory Size and Allocation *(Check One, if applicable)*

- ☐ Not Applicable
- ☐ 32k Bits (4K Bytes) Application areas 16k/16+16k/1

Contactless Technology *(Check One or more, if applicable)*

iCLASS Programming

- ☐ Configured, Non-Programmed[2]
- ☐ Programmed *(Specify Programming)*

MIFARE Classic or MIFARE DESFire EV1 Programming

- ☐ Programmed MIFARE *(Specify HID Format, MIFARE only)*
- ☐ Non-Programmed[2]
- ☐ Custom Programmed, Specify Programming Information[3]

Note: LEGIC interface is not programmed in this version.

Prox Programming

- ☐ Non-Programmed[2] 125 kHz Prox.
- ☐ Programmed 125 kHz Prox. *(Specify Programming)*

[1] For information about HID ActivID CMS, visit https://www.hidglobal.com/products/Cards-and-Credentials/Crescendo.
[2] Non-programmed cards require field programming capability. Various solutions are available to securely program credentials.
[3] Any programming requiring custom keys or non-standard memory locations.
[4] The Manufacturing Legend is required on all cards.
[5] External Card Marking is used to trace manufacturing lots and provide readable serialization.
[6] Contact Customer Service for custom artwork number, lead times, and cost.
[7] Though most formats require two fields (site code and card number), use this area for additional values if required by the format.
[8] Laser marking may extend lead times.
[9] All Crescendo cards come with a blue magnetic stripe.
[10] Please note that cards shipped out of Austin, Texas are always laser-engraved. Inkjetted option is not available for these cards.

Programming Information								
iCLASS			MIFARE Classic			125 kHz		
Format (i.e. H10301)			Format (i.e. H10301)			Format (i.e. H10301)		
Facility / Site Code			Facility / Site Code			Facility / Site Code		
Additional Field Data[7]			Additional Field Data[7]			Additional Field Data[7]		
Internal Card No. Start			Internal Card No. Start			Internal Card No. Start		
External Card No.	☐ None	☐ Random	External Card No.	☐ None	☐ Random	External Card No.	☐ None	☐ Random
	☐ Matching	☐ Non-Matching		☐ Matching	☐ Non-Matching		☐ Matching	☐ Non-Matching
External Start No.	(If not Matching)		External Start No.	(If not Matching)		External Start No.	(If not Matching)	
Optional PIN:	☐ Sequential:	Start #	Optional PIN:	☐ Sequential:	Start #	☐ HID ☐ Indala ☐ Casi Compatible		
	☐ Random:	Length		☐ Random:	Length			
Optional Elite Key:	ICE #		Optional Elite Key (SIO only):	ICE #				

MIFARE DESFire EV1		
Format (i.e. H10301)		
Facility / Site Code		
Additional Field Data[7]		
Internal Card No. Start		
External Card No.	☐ None	☐ Random
	☐ Matching	☐ Non-Matching
External Start No.	(If not Matching)	
Optional PIN:	☐ Sequential:	Start #
	☐ Random:	Length
Optional Elite Key (SIO only):	ICE #	

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401150 - Crescendo Ordering Guide

Base Model: ☒ 401150 -- Crescendo C1150 – for Microsoft CryptoAPI and PKCS#11 using ActivIdentity ActivClient
Order minimum quantities of 25.

Contactless Technology *(Check One). Call HID Customer Service if requiring other technologies.*

- ☐ 0 - None - Contact only card (No physical access)
- ☐ 2 - 13.56 MHz iCLASS 32kb Only
- ☐ 4 - 13.56 MHz MIFARE 4KB Only
- ☐ 6 - 13.56 MHz MIFARE DESFire EV1 8KB Only
- ☐ A - Multi-Tech 13.56 MHz iCLASS 32 kb + 125 kHz Prox (HID, Indala, or Casi)
- ☐ C - Multi-Tech 13.56 MHz MIFARE 4KB + 125 kHz Prox (HID, Indala, or Casi)
- ☐ F - Multi-Tech 13.56 MHz iCLASS 32kb + MIFARE 4KB
- ☐ G - Multi-Tech 13.56 MHz MIFARE DESFire EV1 8KB + Prox - 125 kHz HID
- ☐ H - Multi-Tech 13.56 MHz iCLASS 32kb + MIFARE DESFire EV1 8KB
- ☐ J - Multi-Tech 13.56 MHz iCLASS 32kb + MIFARE DESFire EV1 8KB + 125 kHz HID
- ☐ M - Combo 13.56 MHz LEGIC Prime 1024 and 125 kHz Prox (HID, Indala, or Casi)
- ☐ T - Multi-Tech 13.56 MHz iCLASS 32kb + MIFARE 4KB + 125 kHz HID
- ☐ U - Multi-Tech 13.56 MHz MIFARE 4KB + MIFARE DESFire EV1 8K
- ☐ X - 13.56 MHz Seos 16 KB and 125 kHz Prox (HID, Indala, or Casi)
- ☐ Y - 13.56 MHz Seos 8 KB
- ☐ Z - 13.56 MHz Seos 8 KB and 125 kHz Prox (HID, Indala, or Casi)

Option

- ☐ M - Standard Three Track High Coercivity Magstripe (ISO 7811-6)
- ☐ S - SIM Punched card (only use "0" in the "Contactless Technology Section" in this case)

Option – Secure Identity Object Programming

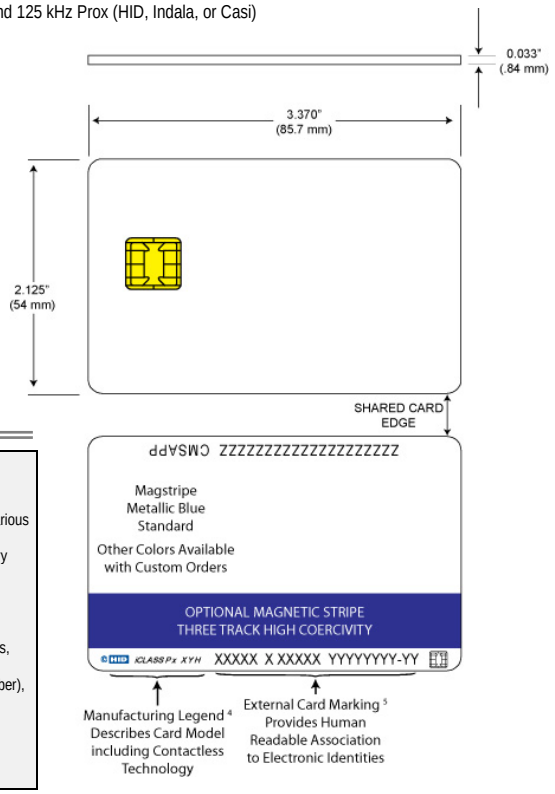
- ☐ H - Programmed with Security Identity Object (SIO): Dual Payload (Support SIO as well as Standard data format-Only for iCLASS)
- ☐ P - Programmed with Security Identity Object (SIO). Mandatory option for Seos based cards.

Option – Custom Artwork[6]

- ☐ _____ (*Specify Artwork Number – Refer to the Custom Artwork Forms for new artwork*)

From the above options, enter your final card options. Examples: 4011500 (for card without magnetic stripe and no physical access technology) or 4011506M (for card with magnetic stripe and MIFARE DESFire EV1 8KB).

Final Part Number	401150				-	(Options)



Configuration and Programming (required for order)

External Marking Technology *(Check One)*
☐ Inkjet[10] ☐ Laser[8]

iCLASS Memory Size and Allocation *(Check One, if applicable)*

- ☐ Not Applicable
- ☐ 32k Bits (4K Bytes) Application areas 16k/16+16k/1

Contactless Technology *(Check One or more, if applicable)*
iCLASS Programming

- ☐ Configured, Non-Programmed[2]
- ☐ Programmed *(Specify Programming)*

MIFARE Classic or MIFARE DESFire EV1 Programming

- ☐ Programmed MIFARE *(Specify HID Format, MIFARE only)*
- ☐ Non-Programmed[2]
- ☐ Custom Programmed, Specify Programming Information[3]

Note: LEGIC interface is not programmed in this version.

Prox Programming
☐ Non-Programmed[2] 125 kHz Prox ☐ Programmed 125 kHz Prox. *(Specify Programming)*

[1] For information about ActivIdentity ActivClient, visit www.hidglobal.com/products/Cards-and-Credentials/Crescendo.
[2] Non-programmed cards require field programming capability. Various solutions are available to securely program credentials.
[3] Any programming requiring custom keys or non-standard memory locations.
[4] The Manufacturing Legend is required on all cards.
[5] External Card Marking is used to trace manufacturing lots and provide readable serialization.
[6] Contact Customer Service for custom artwork number, lead times, and cost.
[7] Though most formats require two fields (site code and card number), use this area for additional values if required by the format.
[8] Laser marking may extend lead times.
[9] All Crescendo cards come with a blue magnetic stripe.
[9] Please note that cards shipped out of Austin, Texas are always laser-engraved. Inkjetted option is not available for these cards.

Programming Information												
iCLASS				MIFARE Classic				125 kHz				
Format (i.e. H10301)				Format (i.e. H10301)				Format (i.e. H10301)				
Facility / Site Code				Facility / Site Code				Facility / Site Code				
Additional Field Data[7]				Additional Field Data[7]				Additional Field Data[7]				
Internal Card No. Start				Internal Card No. Start				Internal Card No. Start				
External Card No.	☐ None	☐ Random		External Card No.	☐ None	☐ Random		External Card No.	☐ None	☐ Random		
	☐ Matching	☐ Non-Matching			☐ Matching	☐ Non-Matching			☐ Matching	☐ Non-Matching		
External Start No.	(If not Matching)			External Start No.	(If not Matching)			External Start No.	(If not Matching)			
Optional PIN:	☐ Sequential:	Start #		Optional PIN:	☐ Sequential:	Start #		☐ HID ☐ Indala ☐ Casi Compatible				
	☐ Random:	Length			☐ Random:	Length						
Optional Elite Key:	ICE #			Optional Elite Key (SIO only):	ICE #							

MIFARE DESFire EV1		
Format (i.e. H10301)		
Facility / Site Code		
Additional Field Data[7]		
Internal Card No. Start		
External Card No.	☐ None	☐ Random
	☐ Matching	☐ Non-Matching
External Start No.	(If not Matching)	
Optional PIN:	☐ Sequential:	Start #
	☐ Random:	Length
Optional Elite Key (SIO only):	ICE #	

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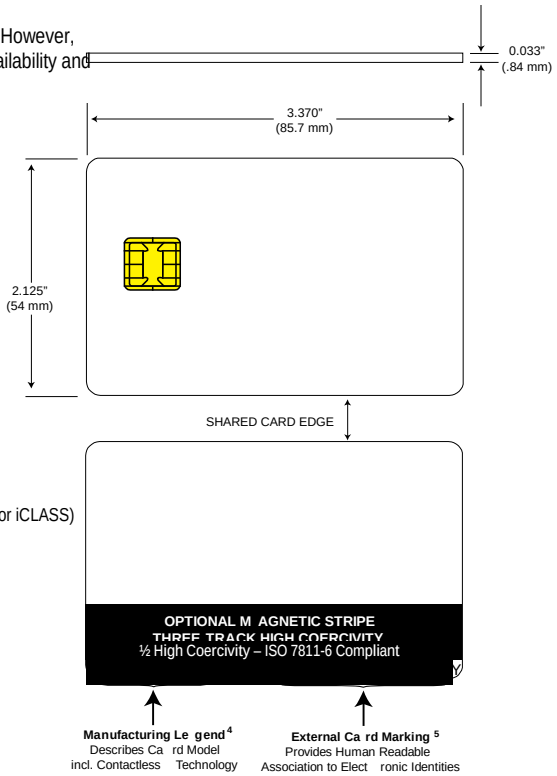
400 - Combo Contact and Contactless Ordering Guide

In most cases Crescendo credentials are the ideal combination of contact and contactless technologies. However, some legacy systems may require a specific contact chip. Consult your account manager for current availability and contact chip codes.



Contactless Technology *(Check One) Call HID Customer Service for other technologies*

- ☐ 0 - None - Contact only card (No physical access)
- ☐ 2 - 13.56 MHz iCLASS 32 kb Only
- ☐ 4 - 13.56 MHz MIFARE Classic 4KB Only
- ☐ 6 - 13.56 MHz MIFARE DESFire EV1 8KB Only
- ☐ A - Multi-tech 13.56 MHz iCLASS 32 KB and 125 kHz Prox (HID, Indala, or Casi)
- ☐ C - Multi-tech 13.56 MHz MIFARE 4KB and 125 kHz Prox (HID, Indala, or Casi)
- ☐ G - Multi-tech 13.56 MHz MIFARE DESFire EV1 8KB and 125 kHz Prox (HID, Indala, or Casi)
- ☐ F - Multi-tech 13.56 MHz iCLASS 32KB and MIFARE 4KB
- ☐ H - Multi-tech 13.56 MHz iCLASS 32KB and MIFARE DESFire EV1 8KB
- ☐ J - Multi-tech 13.56 MHz iCLASS 32KB and MIFARE DESFire EV1 8KB and 125 kHz Prox (HID, Indala, or Casi)
- ☐ M - Combo 13.56 MHz LEGIC Prime 1024 and 125 kHz Prox (HID, Indala, or Casi)
- ☐ T - Multi-tech 13.56 MHz iCLASS 32KB and MIFARE 4KB and 125 kHz Prox (HID, Indala, or Casi)
- ☐ U - Multi-Tech 13.56 MHz MIFARE 4KB + MIFARE DESFire EV1 8K
- ☐ X - 13.56 MHz Seos 16 KB and 125 kHz Prox (HID, Indala, or Casi)

Option – Magnetic Stripe

- ☐ M - Standard Three Track High Coercivity Magstripe (ISO 7811-6)

Option – Secure Identity Object Programming

- ☐ H - Programmed with Security Identity Object (SIO): Dual Payload (Support SIO and Standard data format – Only for iCLASS)
- ☐ P - Programmed with SIO. Mandatory option for Seos based cards.
- ☐ S - SIM Punched card (only use "0" in the "Contactless Technology Section" in this case)

Contact Technology

- ☐ XXX – *Replace with the three character contact chip code provided by your account manager.*

Contact Chip Pre-Perso *(Check One)*

- ☐ B - *Blank*
- ☐ S - *Operating system instantiated*
- ☐ A - *Applet loaded*

Option - Custom Artwork[6]

☐ _____ (*Specify Artwork Number – Refer to the Custom Artwork Forms for new artwork*)

Enter your final card options from check boxes above. Examples: 400A and 400TM

Final Part Number	400				-				-	(Options)

Configuration and Programming (required for order)

External Marking Technology

☐ Inkjet[9] ☐ Laser[8]

iCLASS Memory Size and Allocation *(Check One)*

- ☐ Not Applicable (Use this when choosing MIFARE options 4 and C above)
- ☐ 16k Bits (2k Bytes) with 2 Application Areas
- ☐ 16k Bits (2k Bytes) with 16 Application Areas
- ☐ 32k Bits (4K Bytes) Application areas 16k/2+16k/1
- ☐ 32k Bits (4K Bytes) Application areas 16k/16+16k/1

Contactless Technology *(Check One)*

iCLASS

- ☐ Not Applicable
- ☐ Configured, Non-Programmed[2]
- ☐ Programmed *(Specify Programming)*

MIFARE Classic

- ☐ Not Applicable
- ☐ Non-Programmed[2]
- ☐ Programmed MIFARE *(Specify HID Format, MIFARE only)*
- ☐ Custom Programmed, Specify Programming Information[3]
- ☐ Programmed MIFARE *(Specify HID Format, MIFARE only)*

MIFARE DESFire EV1 Classic

- ☐ Not Applicable
- ☐ Non-Programmed[2]
- ☐ Custom Programmed, Specify Programming Information

Note: LEGIC interface is not programmed in this version.

125 kHz Prox

- ☐ Not Applicable
- ☐ Initialized, Non-Programmed[2]
- ☐ Programmed HID Prox
- ☐ Programmed Indala/Casi Prox
- ☐ Programmed Other Prox

[1] For information about MS CAPI and PKCS #11, visit https://www.hidglobal.com/products/Cards-and-Credentials/Crescendo.
[2] Non-programmed cards require field programming capability. Various solutions are available to securely program credentials.
[3] Any programming requiring custom keys or non-standard memory locations.
[4] The Manufacturing Legend is required on all cards.
[5] External Card Marking is used to trace manufacturing lots and provide readable serialization.
[6] Contact Customer Service for custom artwork number, lead times, and cost.
[7] Most formats require two fields (site code and card number); use this area for additional values if required.
[8] Laser marking may extend lead times.
[9] Please note that cards shipped out of Austin, Texas are always laser-engraved. Inkjetted option is not available for these cards.

Programming Information									
iCLASS			MIFARE			125 kHz			
Format (i.e. H10301)			Format (i.e. H10301)			Format (i.e. H10301)			
Facility / Site Code			Facility / Site Code			Facility / Site Code			
Additional Field Data[7]			Additional Field Data[7]			Additional Field Data[7]			
Internal Card No. Start			Internal Card No. Start			Internal Card No. Start			
External Card No.	☐ None	☐ Random	External Card No.	☐ None	☐ Random	External Card No.	☐ None	☐ Random	
	☐ Matching	☐ Non-Matching		☐ Matching	☐ Non-Matching		☐ Matching	☐ Non-Matching	
External Start No.	(If not Matching)		External Start No.	(If not Matching)		External Start No.	(If not Matching)		
Optional PIN:	☐ Sequential:	Start #		☐ Sequential:	Start #	☐ HID ☐ Indala ☐ Casi Compatible			
	☐ Random:	Length		☐ Random:	Length				
Optional Elite Key:	ICE #								

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MIFARE DESFire EV1		
Format (i.e. H10301)		
Facility / Site Code		
Additional Field Data[7]		
Internal Card No. Start		
External Card No.	☐ None	☐ Random
	☐ Matching	☐ Non-Matching
External Start No.	(If not Matching)	
Optional PIN:	☐ Sequential:	Start #
	☐ Random:	Length
Optional Elite Key (SIO only):	ICE #	

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Embeddable Contactless Cards

1597 - Smart ISOProx® II Card Ordering Form

Ensure each required option has been checked with the appropriate choice to fulfill a completed order form.

Base Model ☒ 1597 Composite 40% Polyester / PVC *

Programming (Check One)
- ☐ L - Programmed, Low Frequency (125 kHz). Specify Programming Information.
- ☐ C - Programmed, Low Frequency (125 kHz) Casi-Rusco[6] (Identified on Ink jet Markings) Specify Programming Information.
- ☐ N - Non-Programmed, Low Frequency (125 kHz). Programming Information Not Required.

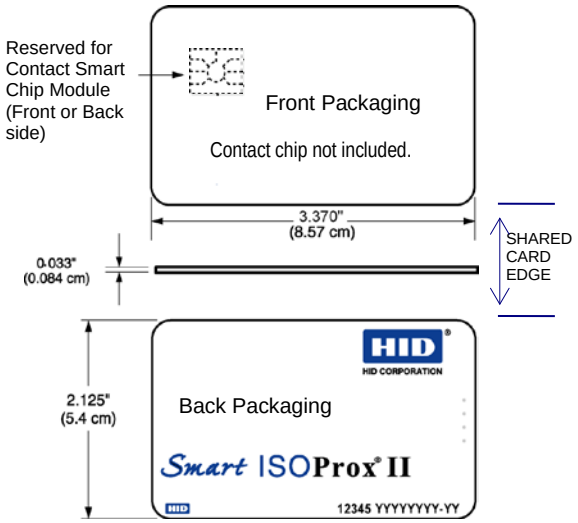
Front Packaging (Check One)
- ☐ G - Plain White with Gloss Finish
- ☐ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[1]

Back Packaging (Check One)
- ☐ G - Plain White PVC with Gloss Finish[2]
- ☐ S - Standard Smart ISOProx II Artwork (shown)[2]
- ☐ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[1, 2]

Card Numbering[3] (Check One)
- ☐ M - Sequential Matching Internal/External (Inkjetted)[7]
- ☐ N - No External Card Numbering
- ☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted)[7]
- ☐ R - Random Internal/Non-Matching Sequential External (Inkjetted)[7]
- ☐ A - Sequential Matching Internal/External (Engraved)[4]
- ☐ B - Sequential Internal/Sequential Non-Matching External (Engraved)[4]
- ☐ C - Random Internal/Non-Matching Sequential External (Engraved)[4]

Slot Punch[5] (Check One)
- ☐ N - No Slot Punch *(Printed location of vertical slot punch will remain)*
- ☐ V - Vertical Slot Punch

12345 = Card ID Number
YYYYYYYY-YY = Sales Order Number



For a list of embeddable modules, contact your Regional Sales Representative.

Option - Custom Artwork[1]

☐ _____ (*Specify Artwork Number – Refer to the Custom Artwork Forms for new Artwork*)

Enter your final card options from check boxes above. Example: 1397LGGMN

Final Part Number	1597						-	(*Options #*)

125 kHz Card Programming Information

Bit Numbers _____ (*example: 26 bit*) Format Number_____(*example: H10301*)

Facility Code _____

(Custom Formats) Site Code _____ City Code _____ OEM Code _____

Internal Card No. Start _____ Stop _____

External Card No. Start _____ Stop _____

Special Instructions: _____

For Contact Smart Chip selection, contact your Regional Sales Representative. Standard configuration does not include a contact smart chip module.

[1] For new artwork files, contact Customer Service for custom artwork number, lead times and cost.
[2] Cards ordered with plain white front and back packaging, with no HID artwork or with custom artwork, will still have a small HID logo HID and reference number printed in the lower left-hand corner and a slot punch target printed on the back of the card.
[3] The external card number is placed in the bottom right-hand corner on the back of the card.
[4] For Laser Engraved external numbers, consult factory for lead times and cost.
[5] Cards are provided with an optional vertical slot punch at no additional charge. Some video imaging printers cannot accommodate pre-slot punched cards. Consult with the printer manufacturer prior to ordering.
[6] Programmed as a sequential 12 digit number.
[7] Please note that cards shipped out of North America are always laser-engraved. Inkjetted option is not available for these cards.
* The composite construction is recommended for all cards that will have an over-laminate applied.

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1598 - Smart DuoProx® II Card Ordering Form

Ensure each required option has been checked with the appropriate choice to fulfill a completed order form.

Base Model ☒ *1598* Composite 40% Polyester / PVC*

Programming (Check One)

- ☐ L - Programmed, Low Frequency (125 kHz). Specify Programming Information.
- ☐ C - Programmed, Low Frequency (125 kHz) Casi-Rusco. (Identified on Ink jet Markings) Specify Programming Information.
- ☐ N - Non-Programmed, Low Frequency (125 kHz). Programming Information Not Required.

Front Packaging (Check One)

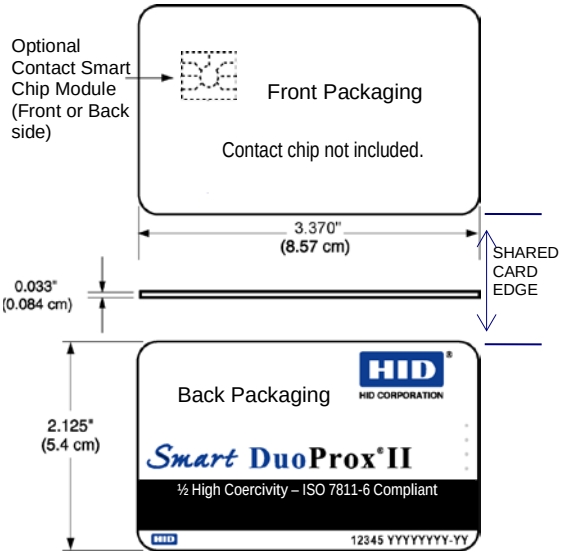
- ☐ G - Plain White with Gloss Finish
- ☐ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[1]

Back Packaging (Check One)

- ☐ G - Plain White PVC with Gloss Finish[2]
- ☐ S - Standard Smart DuoProx II Artwork (shown)[2]
- ☐ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[1, 2]

Card Numbering[3] (Check One)

- ☐ M - Sequential Matching Internal/External (Inkjetted)[6]
- ☐ N - No External Card Numbering
- ☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted)[6]
- ☐ R - Random Internal/Non-Matching Sequential External (Inkjetted)[6]
- ☐ A - Sequential Matching Internal/External (Engraved)[4]
- ☐ B - Sequential Internal/Sequential Non-Matching External (Engraved)[4]
- ☐ C - Random Internal/Non-Matching Sequential External (Engraved)[4]



For a list of embeddable modules, contact your Regional Sales Representative.

12345 = Card ID **Number**
YYYYYYYY-YY = Sales Order Number

Slot Punch[5] (Check One)

- ☐ N - No Slot Punch (Printed location of vertical slot punch will remain)
- ☐ V - Vertical Slot Punch

Optional Custom Artwork[1]

☐ _____ (*Specify Artwork Number – Refer to the Custom Artwork Forms for new Artwork*)

Enter your final card options from check boxes above. Example: 1598LGGMN

Final Part Number	1598						-	(*Optional Artwork #*)

125 kHz Card Programming Information

Bit Numbers _____ (*example: 26 bit*) Format Number_____(*example: H10301*)

Facility Code _____

(Custom Formats) Site Code _____ City Code _____ OEM Code _____

Internal Card No. Start _____ Stop _____

External Card No. Start _____ Stop _____

Special Instructions: _____

For Contact Smart Chip selection, contact your Regional Sales Representative. Standard configuration does not include a contact smart chip module.

[1] For new artwork files, contact Customer Service for custom artwork number, lead times and cost.

[2] Cards ordered with plain white front and back packaging, with no HID artwork or with custom artwork, will still have a small HID logo and reference number printed in the lower left-hand corner and a slot punch target printed on the back of the card.

[3] The external card number is placed in the bottom right-hand corner on the back of the card.

[4] For Laser Engraved external numbers, consult factory for lead times and cost.

[5] Cards are provided with an optional vertical slot punch at no additional charge. Some video imaging printers cannot accommodate pre-slot punched cards. Consult with the printer manufacturer prior to ordering.

[6] Please note that cards shipped out of North America are always laser-engraved. Inkjetted option is not available for these cards.

* The composite construction is recommended for all cards that will have an over-laminate applied.

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211 - iCLASS Embeddable Card Ordering Guide

The iCLASS embeddable contactless smart card offers read/write capability. Personalize the card with a contact smart chip module, photo ID, magnetic stripe, barcode, or anti-counterfeiting element.
Ensure each required option has been checked with the appropriate choice to fulfill a completed order form.

Base Model ☒ 211 Composite 40% Polyester / PVC *

iCLASS Memory Size and Allocation (Check One)
- ☐ 0 - 2k Bits (256 Bytes) with 2 Application Areas
- ☐ 1 - 16k Bits (2k Bytes) with 2 Application Areas
- ☐ 2 - 16k Bits (2k Bytes) with 16 Application Areas
- ☐ 3 - 32k Bits (4K Bytes) Application areas 16k/2+16k/1
- ☐ 4 - 32k Bits (4K Bytes) Application areas 16k/16+16k/1

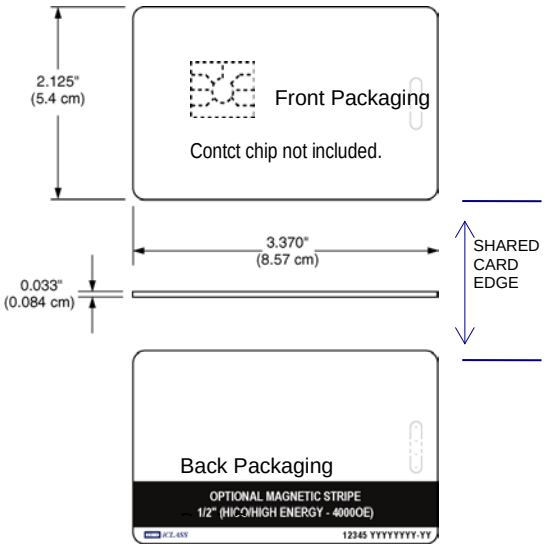
Programming (Check One)
- ☐ C - Configured, Non-Programmed iCLASS. Programming Information Not Required.
- ☐ P - Programmed iCLASS. Specify Programming Information.

Front Packaging (Check One)
- ☐ G - Plain White with Gloss Finish
- ☐ C - Custom Artwork/Contact Module with Gloss Finish – Specify Custom Artwork/Contact Module Number[1]

Back Packaging (Check One)
- ☐ G - Plain White with Gloss Finish[2]
- ☐ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[1]
- ☐ 1 - Plain White with Gloss Finish with Magnetic Stripe[2]
- ☐ 3 - Custom Artwork with Gloss Finish with Magnetic Stripe - Specify Custom Artwork Number[1]

Card Numbering[3] (Check One)
- ☐ M - Sequential Matching Internal/External (Inkjetted)[6]
- ☐ O - Sequential External only (Inkjetted)[6]
- ☐ N - No External Card Numbering
- ☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted)[6]
- ☐ R - Random Internal/Non-Matching Sequential External (Inkjetted)[6]
- ☐ A - Sequential Matching Internal/External (Laser Engraved)[4]
- ☐ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)[4]
- ☐ C - Random Internal/Non-Matching Sequential External (Laser Engraved)[4]

Slot Punch[5] (Check One)
- ☐ N - No Slot Punch (Printed location of vertical slot punch will remain)
- ☐ V - Vertical Slot Punch



12345 = Card ID Number
YYYYYYYY-YY = Sales Order Number

For a list of embeddable modules, contact your Regional Sales Representative.

Option - Custom Artwork[1]
☐ _____ (*Specify Artwork Number – Refer to the Custom Artwork Forms for new Artwork*)

Enter your final card options from check boxes above. Example: 2111CGGNN

Final Part Number	211							-	(Options #)

iCLASS Card Programming Information

Bit Numbers _____. (*example: 26 bit)* Format Number _____(*example: H10301*)
Facility Code _____.
(Custom Formats) Site Code _____. City Code _____. OEM Code _____.
Internal Card # Start _____. Stop _____. External Card # Start _____. Stop _____.
PIN (2-12 digits): ☐ Sequential: Start # _____ ☐ Random: Length _____.
Special Instructions: _____.

For Contact Smart Chip selection, contact your Regional Sales Representative. Standard configuration does not include a contact smart chip module.

[1] For new artwork files, contact Customer Service for custom artwork number, lead times, and cost.
[2] Cards ordered with plain white front and back packaging, or custom artwork, will still have a small HID logo and reference number printed in the lower left-hand corner and a slot punch target printed on the back of the card.
[3] The external card number is placed in the bottom right-hand corner on the back of the card.
[4] For Laser Engraved external numbers, consult factory for lead times and cost.
[5] Cards are provided with an optional slot punch at no additional charge. Some video imaging printers cannot accommodate pre-slot punched cards.
[6] Please note that cards shipped out of North America are always laser-engraved. Inkjetted option is not available for these cards.
* The composite construction is recommended for all cards with over-laminate applied. Consult with the printer manufacturer prior to ordering.

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213 - Combination (iCLASS + Prox) Embeddable Ordering Guide

The iCLASS Prox embeddable contactless smart card offers read/write and HID Prox capability in a single card. Personalize the card with a contact smart chip module, photo ID, magnetic stripe, barcode, or anti-counterfeiting element.

Base Model ☒ 213 Composite 40% Polyester / PVC *

iCLASS *Memory Size and Allocation (Check One)*
- ☐ 0 - 2k Bits (256 Bytes) with 2 Application Areas
- ☐ 1 - 16k Bits (2k Bytes) with 2 Application Areas
- ☐ 2 - 16k Bits (2k Bytes) with 16 Application Areas
- ☐ 3 - 32k Bits (4K Bytes) Application areas 16k/2+16k/1
- ☐ 4 - 32k Bits (4K Bytes) Application areas 16k/16+16k/1

Programming (Check One)
- ☐ C - Configured, Non-Programmed iCLASS and 125 kHz Prox. Programming Information Not Required.
- ☐ A - Configured, Non-Programmed iCLASS, Programmed 125 kHz Prox. Specify Programming Information.
- ☐ P - Programmed iCLASS only. Specify Programming Information.
- ☐ B - Programmed 125 kHz Prox and iCLASS. Specify Programming Information.

Front Packaging (Check One)
- ☐ G - Plain White with Gloss Finish
- ☐ C - Custom Artwork/Contact Module with Gloss Finish – Specify Custom Artwork/Contact Module Number[1]

Back Packaging (Check One)
- ☐ G - Plain White with Gloss Finish[2]
- ☐ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[1]
- ☐ 1 - Plain White with Gloss Finish with Magnetic Stripe[2]
- ☐ 3 - Custom Artwork with Gloss Finish with Magnetic Stripe - Specify Custom Artwork Number[1]

iCLASS *Card Numbering[3] (Check One)*
- ☐ M - Sequential Matching Internal/External (Inkjetted)
- ☐ O - Sequential External only (Inkjetted)
- ☐ N - No External Card Numbering
- ☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted)
- ☐ R - Random Internal/Non-Matching Sequential External (Inkjetted)
- ☐ A - Sequential Matching Internal/External (Laser Engraved)[4]
- ☐ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)[4]
- ☐ C - Random Internal/Non-Matching Sequential External (Laser Engraved)[4]

Slot Punch[5] (Check One)
- ☐ N - No Slot Punch (Printed location of vertical slot punch will remain)
- ☐ V - Vertical Slot Punch

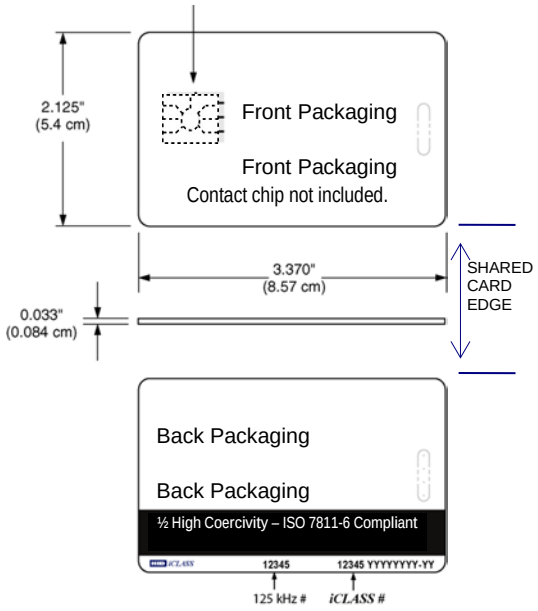
125 kHz Card Numbering[3] (Check One)
- ☐ M - Sequential Matching Internal/External (Inkjetted)[6]
- ☐ O - Sequential External only (Inkjetted) [6]
- ☐ N - No External Card Numbering
- ☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted) [6]
- ☐ R - Random Internal/Non-Matching Sequential External (Inkjetted) [6]
- ☐ A - Sequential Matching Internal/External (Laser Engraved)[4]
- ☐ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)[4]

For a list of embeddable modules, contact your Regional Sales Representative.

Option - Custom Artwork[1]

☐ _____ (*Specify Artwork Number – Refer to the Custom Artwork Forms for new Artwork*)

Optional Contact Smart Chip Module



12345 = Card ID Number
YYYYYYYY-YY = Sales Order No.

Enter your final card options from check boxes above. Example: 2133CGGMNM

Final Part Number	213									-	(*Options #*)

iCLASS Programming Information

Bit Numbers _____. (*example: 26 bit*)

Format Number _____ (*example: H10301*)

Facility Code _____.

(Custom Formats) Site Code _____. City Code _____.

OEM Code _____.

Internal Card No. Start _____. Stop _____.

External Card No. Start _____. Stop _____.

PIN: ☐ Sequential: Start # _____ ☐ Random: Length _____.

125 kHz Programming Information

Bit Numbers _____. (*example: 26 bit*)

Format Number _____ (*example: H10301*)

Facility Code _____.

(Custom Formats) Site Code _____. City Code _____.

OEM Code _____.

Internal Card No. Start _____. Stop _____.

External Card No. Start _____. Stop _____.

Special Instructions: _____.

For Contact Smart Chip selection, contact your Regional Sales Representative. Standard configuration does not include a contact smart chip module.

[1] For new artwork files, contact Customer Service for custom artwork number, lead times, and cost.

[2] Cards ordered with plain white front and back packaging, or custom artwork, will still have a small HID logo and reference number printed in the lower left-hand corner and a slot punch target printed on the back of the card.

[3] The external card number is placed in the bottom right-hand corner for iCLASS 13.56 MHz and in bottom center for 125 kHz Prox on the back of the card.

[4] For Laser Engraved external numbers, consult factory for lead times and cost.

[5] Cards are provided with an optional slot punch at no additional charge. Some video imaging printers cannot accommodate pre-slot punched cards.

[6] Please note that cards shipped out of North America are always laser-engraved. Inkjetted option is not available for these cards.

* The composite construction is recommended for all cards with over-laminate applied. Consult with the printer manufacturer prior to ordering.

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243 - Combination Dual HF (iCLASS / Other HF) Embeddable Ordering Guide

The iCLASS with MIFARE or MIFARE DESFire embeddable smart card offers multiple High Frequency technologies to simplify card issuance for diverse systems or migration projects. Add new applications while leveraging your investment in existing access control systems. Personalize the card with a photo ID, magnetic stripe, barcode, or anti-counterfeiting element.

Ensure each required option has been checked with the appropriate choice to fulfill a completed order form.

Base Model ☒ 243 Composite 40% Polyester / PVC *

iCLASS *Memory Size and Allocation (Check One)*

- ☐ 0 - 2k Bits (256 Bytes) with 2 Application Areas (only available with MIFARE CLASSIC 1K)
- ☐ 3 - 32k Bits (4K Bytes) Application areas 16k/2+16k/1
- ☐ 4 - 32k Bits (4K Bytes) Application areas 16k/16+16k/1

Card Programming (Check One)

- ☐ B - Programmed iCLASS & 2nd Technology. Specify Programming Information.
- ☐ P - Programmed iCLASS only not 2nd Technology. Specify Programming Information.
- ☐ C - Configured, Non-Programmed iCLASS. Non-programmed 2nd Technology. Programming Information Not Required.
- ☐ A - Configured, Non-Programmed iCLASS, Programmed 2nd Technology. Specify Programming Information.

2nd High Frequency Technology (Check One)

- ☐ M - MIFARE Classic 1K Bytes (only available with iCLASS 2k bits)
- ☐ N - MIFARE 4K Bytes
- ☐ K - MIFARE DESFire EV1 8K Bytes

Front Packaging (Check One)

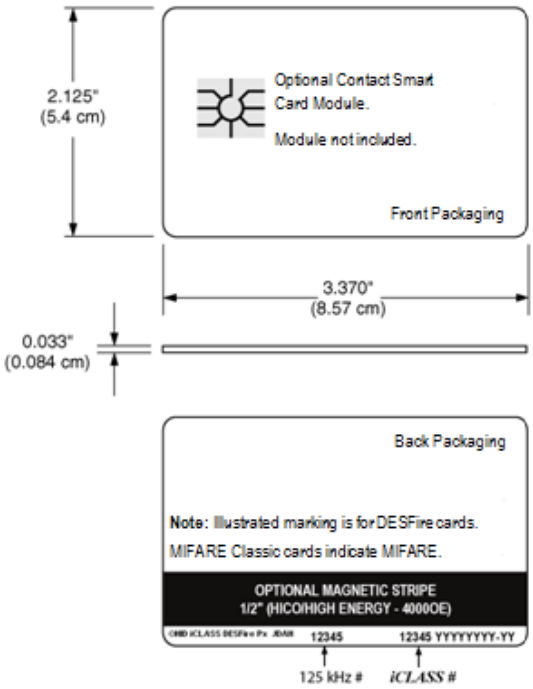
- ☐ G - Plain White with Gloss Finish
- ☐ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[1]

Back Packaging (Check One)

- ☐ G - Plain White with Gloss Finish[2]
- ☐ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[1]
- ☐ 1 - Plain White with Gloss Finish with Magnetic Stripe[2]
- ☐ 3 - Custom Artwork with Gloss Finish with Magnetic Stripe - Specify Custom Artwork Number[1]

iCLASS *Card Numbering[3] (Check One)*

- ☐ M - Sequential Matching Internal/External (Inkjetted)[5]
- ☐ N - No External Card Numbering
- ☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted) [5]
- ☐ R - Random Internal/Non-Matching Sequential External (Inkjetted) [5]
- ☐ A - Sequential Matching Internal/External (Laser Engraved)[4]
- ☐ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)[4]
- ☐ C - Random Internal/Non-Matching Sequential External (Laser Engraved)[4]



Slot Punch

IMPORTANT: Dual High Frequency credentials do not allow a slot punch due to the antenna design. HID recommends using a badge holder to attach this card to a lanyard or badge clip.

☒ N - No Slot Punch

2nd High Frequency Technology Card Numbering[3] (Check One)

- ☐ M - Sequential Matching Internal/External (Inkjetted)
- ☐ N - No External Card Numbering
- ☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted)
- ☐ R - Random Internal/Non-Matching Sequential External (Inkjetted)
- ☐ A - Sequential Matching Internal/External (Laser Engraved)[4]
- ☐ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)[4]
- ☐ C - Random Internal/Non-Matching Sequential External (Laser Engraved)[4]

For a list of embeddable modules, contact your Regional Sales Representative.

Option - Custom Artwork[1]

☐ _____ (*Specify Artwork Number – Refer to the Custom Artwork Forms for new artwork*)

Enter your final card options from the above selections. Example: 2434PNGGNNN

Final Part Number	243							N		-	(Options #)

iCLASS Programming Information

Bit Numbers _____. (*example: 26 bit*)
Format Number _____ (*example: H10301*)
Facility Code _____.
iCLASS Elite ICE Number (if applicable) ____
(Custom Formats) Site Code _____. City Code _____.
OEM Code _____.
Internal Card No. Start _____. Stop _____.
External Card No. Start _____. Stop _____.
PIN: ☐ Sequential: Start # _____ ☐ Random: Length _____.

2nd 13.56 MHz Programming Information

Bit Numbers _____. (*example: 26 bit*)
Format Number _____ (*example: H10301*)
Facility Code _____.
(Custom Formats) Site Code _____. City Code _____.
OEM Code _____.
Internal Card No. Start _____. Stop _____.
External Card No. Start _____. Stop _____.
Special Instructions: ____

[1] For new artwork files, contact Customer Service for custom artwork number, lead times, and cost.
[2] Cards ordered with plain white front and back packaging, or custom artwork, will still have a small HID logo and reference number printed in the lower left-hand corner and a slot punch target printed on the back of the card.
[3] The external card number is placed in the bottom right-hand corner for iCLASS 13.56 MHz and in the bottom center for 125 kHz Proximity on the back of the card.
[4] For Laser Engraved external numbers, consult factory for lead times and cost.
[6] Please note that cards shipped out of North America are always laser-engraved. Inkjetted option is not available for these cards.
* The composite construction is recommended for all cards with over-laminate applied. Consult with the printer manufacturer prior to ordering.

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263 - Multi Technology HF-HF (iCLASS / Other HF + Prox) Embeddable Ordering Guide

The iCLASS + Prox with MIFARE or MIFARE DESFire embeddable smart card offers multiple High & Low Frequency technologies to simplify card issuance for diverse systems or migration projects. Add new applications while leveraging your investment in existing access control systems. Personalize the card with a photo ID, magnetic stripe, barcode, or anti-counterfeiting element.
Ensure each required option has been checked with the appropriate choice to fulfill a completed order form.

Base Model ☒ 263 Composite 40% Polyester / PVC *

iCLASS Memory Size and Allocation (Check One)
- ☐ 0 - 2k Bits (256 Bytes) with 2 Application Areas (only available with MIFARE CLASSIC 1K)
- ☐ 3 - 32k Bits (4K Bytes) Application areas 16k/2+16k/1
- ☐ 4 - 32k Bits (4K Bytes) Application areas 16k/16+16k/1

Card Programming (Check One)
- ☐ T - iCLASS programmed, 2nd Technology programmed, 3rd Technology programmed. Specify Programming Information.
- ☐ P - Programmed iCLASS and Prox not 2nd Technology. Specify Programming Information.
- ☐ C - Configured, Non-Programmed iCLASS. Non-programmed 2nd Technology. Prox programmed. Specify Programming Information.
- ☐ A - Configured, Non-Programmed iCLASS, Programmed 2nd Technology and Prox. Specify Programming Information.
- ☐ N - Configured, Non-Programmed iCLASS, Non Programmed 2nd Technology and Prox.

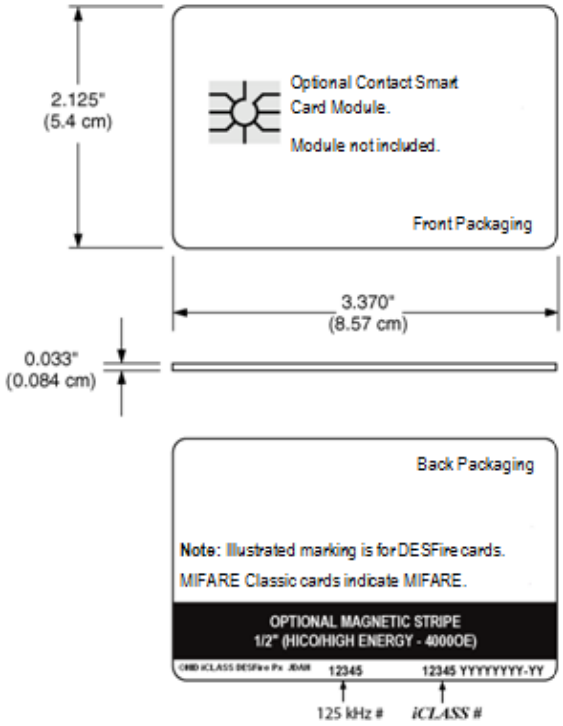
2nd High Frequency Technology (Check One)
- ☐ M - MIFARE Classic 1K Bytes (only available with iCLASS 2k bits)
- ☐ N - MIFARE Classic 4K Bytes
- ☐ K - MIFARE DESFire EV1 8K Bytes

3rd Low Frequency Technology
- ☒ P - HID Prox

Front Packaging (Check One)
- ☐ G - Plain White with Gloss Finish
- ☐ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[1]

Back Packaging (Check One)
- ☐ G - Plain White with Gloss Finish[2]
- ☐ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[1]
- ☐ 1 - Plain White with Gloss Finish with Magnetic Stripe[2]
- ☐ 3 - Custom Artwork with Gloss Finish with Magnetic Stripe - Specify Custom Artwork Number[1]

iCLASS Card Numbering[3] (Check One)
- ☐ M - Sequential Matching Internal/External (Inkjetted)[5]
- ☐ N - No External Card Numbering
- ☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted)[5]
- ☐ R - Random Internal/Non-Matching Sequential External (Inkjetted)[5]
- ☐ A - Sequential Matching Internal/External (Laser Engraved)[4]
- ☐ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)[4]
- ☐ C - Random Internal/Non-Matching Sequential External (Laser Engraved)[4]



Slot Punch
IMPORTANT: Those credentials do not allow a slot punch due to the antenna design. HID recommends using a badge holder to attach this card to a lanyard or badge clip.
- ☒ N - No Slot Punch

2nd High Frequency Technology Card Numbering[3] (Check One)
- ☐ M - Sequential Matching Internal/External (Inkjetted)[5]
- ☐ N - No External Card Numbering
- ☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted)[5]
- ☐ R - Random Internal/Non-Matching Sequential External (Inkjetted)[5]
- ☐ A - Sequential Matching Internal/External (Laser Engraved)[4]
- ☐ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)[4]
- ☐ C - Random Internal/Non-Matching Sequential External (Laser Engraved)[4]

3rd Low Frequency Technology Card Numbering[3] (Check One)
- ☐ M - Sequential Matching Internal/External (Inkjetted)[5]
- ☐ N - No External Card Numbering
- ☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted)[5]
- ☐ R - Random Internal/Non-Matching Sequential External (Inkjetted)[5]
- ☐ A - Sequential Matching Internal/External (Laser Engraved)[4]
- ☐ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)[4]
- ☐ C - Random Internal/Non-Matching Sequential External (Laser Engraved)

For a list of embeddable modules, contact your Regional Sales Representative.

Option - Custom Artwork[1]
- ☐ _____ (*Specify Artwork Number – Refer to the Custom Artwork Forms for new artwork*)

Enter your final card options from the above selections. Example: 2634TNPGGSNNN

Final Part Number	263				P				N			-	(Options #)

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iCLASS 13.56 MHz Programming Information

Bit Numbers _____ (*example: 26 bit)*
Format Number _____ (*example: H10301*)
Facility Code _____.
iCLASS Elite ICE Number (if applicable) ____
(Custom Formats) Site Code _____ City Code _____.
OEM Code _____.
Internal Card No. Start _____. Stop _____.
External Card No. Start _____. Stop _____.
PIN: ☐ Sequential: Start # _____ ☐ Random: Length _____.

2nd 13.56 MHz Programming Information

Bit Numbers _____ (*example: 26 bit)*
Format Number _____ (*example: H10301*)
Facility Code _____.
(Custom Formats) Site Code _____. City Code _____.
OEM Code _____.
Internal Card No. Start _____. Stop _____.
External Card No. Start _____. Stop _____.
Special Instructions: ____

125 kHz Card Programming Information

Bit Numbers _____ (*example: 26 bit)*
Format Number_____ (*example: H10301*)
Facility Code _____
(Custom Formats) Site Code _____ City Code _____ OEM Code _____
Internal Card No. Start _____ Stop _____
External Card No. Start _____ Stop _____
Special Instructions: _____

[1] For new artwork files, contact Customer Service for custom artwork number, lead times, and cost.
[2] Cards ordered with plain white front and back packaging, or custom artwork, will still have a small HID logo and reference number printed in the lower left-hand corner.
[3] The external card number is placed in the bottom right-hand corner for iCLASS 13.56 MHz and MIFARE while it is in the bottom center for 125 kHz Proximity on the back of the card.
[4] For Laser Engraved external numbers, consult factory for lead times and cost.
[5] Please note that cards shipped out of North America are always laser-engraved. Inkjetted option is not available for these cards.
* The composite construction is recommended for all cards with over-laminate applied. Consult with the printer manufacturer prior to ordering.

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283 - Combination Dual HF (MIFARE Classic + MIFARE DESFire) Embeddable Ordering Guide

The MIFARE + MIFARE DESFire embeddable smart card offers multiple High Frequency technologies to simplify card issuance for diverse systems or migration projects. Add new applications while leveraging your investment in existing access control systems. Personalize the card with a photo ID, magnetic stripe, barcode, or anti-counterfeiting element. This card is only made available with MIFARE DESFire EV1 (not DESFire 0.6).

Ensure each required option has been checked with the appropriate choice to fulfill a completed order form.

Base Model ☒ 283 Composite 40% Polyester / PVC *

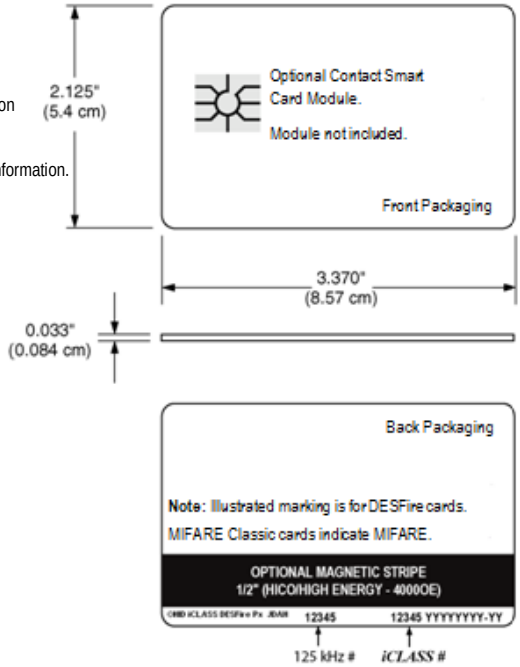
MIFARE High Frequency Technology
☒ N - MIFARE 4K Bytes

Card Programming (Check One)
☐ B - Programmed MIFARE and MIFARE DESFire Technologies. Specify Programming Information
☐ P - MIFARE Programmed only not MIFARE DESFire Technology. Specify Programming Information
☐ N - Non-Programmed MIFARE and MIFARE DESFire
☐ A - Non-Programmed MIFARE, Programmed MIFARE DESFire Technology. Specify Programming Information.

MIFARE DESFire High Frequency Technology
☒ K - MIFARE DESFire EV1 8K Bytes

Front Packaging (Check One)
☐ G - Plain White with Gloss Finish
☐ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[1]

Back Packaging (Check One)
☐ G - Plain White with Gloss Finish[2]
☐ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[1]
☐ 1 - Plain White with Gloss Finish with Magnetic Stripe[2]
☐ 3 - Custom Artwork with Gloss Finish with Magnetic Stripe - Specify Custom Artwork Number[1]



MIFARE *High Frequency Card Numbering*[3] *(*Check One*)*
☐ M - Sequential Matching Internal/External (Inkjetted)[6]
☐ N - No External Card Numbering
☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted) [6]
☐ R - Random Internal/Non-Matching Sequential External (Inkjetted) [6]
☐ A - Sequential Matching Internal/External (Laser Engraved)[4]
☐ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)[4]
☐ C - Random Internal/Non-Matching Sequential External (Laser Engraved)[4]

Slot Punch
IMPORTANT: Dual High Frequency credentials do not allow a slot punch due to the antenna design. HID recommends using a badge holder to attach this card to a lanyard or badge clip.
☒ N - No Slot Punch

MIFARE DESFire High Frequency Technology Card Numbering[3] *(Check One)*
☐ M - Sequential Matching Internal/External (Inkjetted)[6]
☐ N - No External Card Numbering
☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted)[6]
☐ R - Random Internal/Non-Matching Sequential External (Inkjetted)[6]
☐ A - Sequential Matching Internal/External (Laser Engraved)[4]
☐ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)[4]
☐ C - Random Internal/Non-Matching Sequential External (Laser Engraved)[4]

For a list of embeddable modules, contact your Regional Sales Representative.

Option - Custom Artwork[1]
☐ _____ (*Specify Artwork Number – Refer to the Custom Artwork Forms for new artwork*)

Enter your final card options from the above selections. Example: 2434PNGGNNN

Final Part Number	273	N		K				N		-	(*Options #*)

MIFARE 13.56 MHz Programming Information

Bit Numbers _____ (*example: 26 bit*)
Format Number _____ (*example: H10301*)
Facility Code _____.
(Custom Formats) Site Code _____. City Code _____.
OEM Code _____.
Internal Card No. Start _____. Stop _____.
External Card No. Start _____. Stop _____.
Special Instructions: ____

MIFARE DESFire 13.56 MHz Programming Information

Bit Numbers _____ (*example: 26 bit*)
Format Number _____ (*example: H10301*)
Facility Code _____.
(Custom Formats) Site Code _____. City Code _____.
OEM Code _____.
Internal Card No. Start _____. Stop _____.
External Card No. Start _____. Stop _____.
Special Instructions: _____.

[1] For new artwork files, contact Customer Service for custom artwork number, lead times, and cost.
[2] Cards ordered with plain white front and back packaging, or custom artwork, will have a small HID logo, reference number (lower left corner) and a slot punch target printed on the back of the card.
[3] The external card number on the card back is placed in the bottom right corner for MIFARE 13.56 MHz and in the bottom center for MIFARE DESFire.
[4] For Laser Engraved external numbers, consult factory for lead times and cost.
[5] Cards are provided with an optional slot punch at no additional charge. Some video imaging printers cannot accommodate pre-slot punched cards.
[6] Please note that cards shipped out of North America are always laser-engraved. Inkjetted option is not available for these card.
* The composite construction is recommended for all cards with over-laminate applied. Consult with the printer manufacturer prior to ordering.

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301 - iCLASS SE Card Ordering Guide

These embeddable cards offer heightened security for installations that do not contain standard iCLASS credentials.
This card is SIO only, it is not loaded with standard data payload and for this reason is not compatible with non iCLASS SE readers.
Ensure each required option has been checked with the appropriate choice to fulfill a completed order form.

Base Model ☐ **301 Composite 40% Polyester / PVC***

iCLASS Memory Size and Allocation (Check One)
- ☐ 0 - 2k Bits (256 Bytes) with 2 Application Areas
- ☐ 1 - 16k Bits (2k Bytes) with 2 Application Areas
- ☐ 2 - 16k Bits (2k Bytes) with 16 Application Areas
- ☐ 3 - 32k Bits (4K Bytes) Application areas 16k/2+16k/1
- ☐ 4 - 32k Bits (4K Bytes) Application areas 16k/16+16k/1

Secure Identity Object Programming
- ☒ P - Programmed with Security Identity Object (SIO)

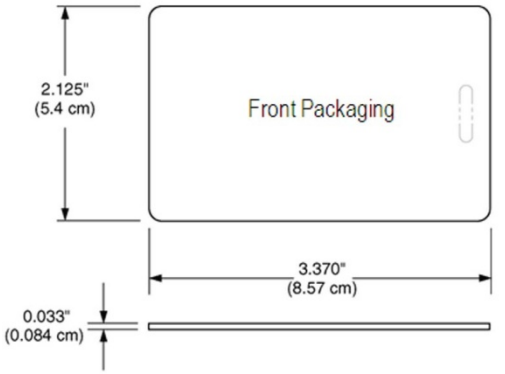
Front Packaging (Check One)
- ☐ G - Plain White with Gloss Finish
- ☐ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[1]

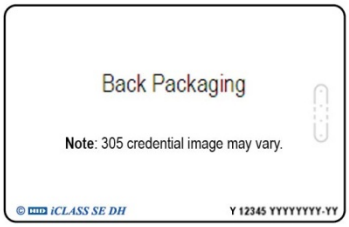
Back Packaging (Check One)
- ☐ G - Plain White with Gloss Finish[2]
- ☐ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[1]
- ☐ 1 - Plain White with Gloss Finish with Magnetic Stripe[2]
- ☐ 3 - Custom Artwork with Gloss Finish with Magnetic Stripe - Specify Custom Artwork Number[1]

Card Numbering[3] (Check One)
- ☐ M - Sequential Matching Internal/External (Inkjetted)[7]
- ☐ N - No External Card Numbering
- ☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted)[7]
- ☐ R - Random Internal/Non-Matching Sequential External (Inkjetted)[7]
- ☐ A - Sequential Matching Internal/External (Laser Engraved)[4]
- ☐ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)[4]
- ☐ C - Random Internal/Non-Matching Sequential External (Laser Engraved)[4]

Slot Punch[5] (Check One)
- ☐ N - No Slot Punch (Printed location of vertical slot punch will remain)
- ☐ V - Vertical Slot Punch
- ☐ B - No Slot Punch - Horizontal Punch compatible (Printed location of Vertical and Horizontal slot punch will remain)[6]
- ☐ H - Horizontal Slot Punch[6]

Option - Custom Artwork[1]
- ☐ _____ *(Specify Artwork Number – Refer to the Custom Artwork Forms for new artwork)*





Y = iCLASS Programming
12345 = Card ID Number
YYYYYYYY-YY = Sales Order Number

Enter your final card options from check boxes above. Example: 3010PGGNN

Final Part Number		P						-	(Options #)

iCLASS Card Programming Information

Bit Numbers _____. (example: 26 bit) Format Number _____(example: H10301)
Facility Code _____.
SE Elite ICE Number (if applicable) - _____.
(Custom Formats) Site Code _____. City Code _____ . OEM Code _____.
Internal Card # Start _____. Stop _____. External Card # Start _____. Stop _____.
Special Instructions: _____ .

[1] For new artwork files, contact Customer Service for custom artwork number, lead-times, and cost.
[2] Cards ordered with plain white front and back packaging, or custom artwork, will still have a small HID logo and reference number printed in the lower left-hand corner and a slot punch target printed on the back of the card.
[3] The external card number is placed in the bottom right-hand corner on the back of the card.
[4] For Laser Engraved external numbers, consult factory for lead times and cost.
[5] Cards are provided with an optional slot punch at no additional charge. Some video imaging printers cannot accommodate pre-slot punched cards.
[6] The ability to add a horizontal slot punch requires a different iCLASS antenna design. Users can expect a read range reduction of approximately 20% if they order options B or H for the Slot Punch.
[6] Please note that cards shipped out of North America are always laser-engraved. Inkjetted option is not available for these card.
* The composite construction is recommended for all cards with over-laminate applied. Consult with the printer manufacturer prior to ordering.

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311 - iCLASS SE + Prox Card Ordering Guide

Maximized compatibility with added security into installations that DO contain standard Prox credentials.
This card is SIO only, it is not loaded with standard data payload and for this reason is not compatible with non iCLASS SE readers.
Ensure each required option has been checked with the appropriate choice to fulfill a completed order form.

Base Model ☐ **311 Composite 40% Polyester / PVC***

iCLASS Memory Size and Allocation (Check One)
- ☐ 0 - 2k Bits (256 Bytes) with 2 Application Areas
- ☐ 1 - 16k Bits (2k Bytes) with 2 Application Areas
- ☐ 2 - 16k Bits (2k Bytes) with 16 Application Areas
- ☐ 3 - 32k Bits (4K Bytes) Application areas 16k/2+16k/1
- ☐ 4 - 32k Bits (4K Bytes) Application areas 16k/16+16k/1

Secure Identity Object Programming (Check One)
- ☐ P - Programmed with Security Identity Object (SIO), Prox non programmed
- ☐ R - Both interfaces programmed: iCLASS with Security Identity Object (SIO), Prox programmed with HID format

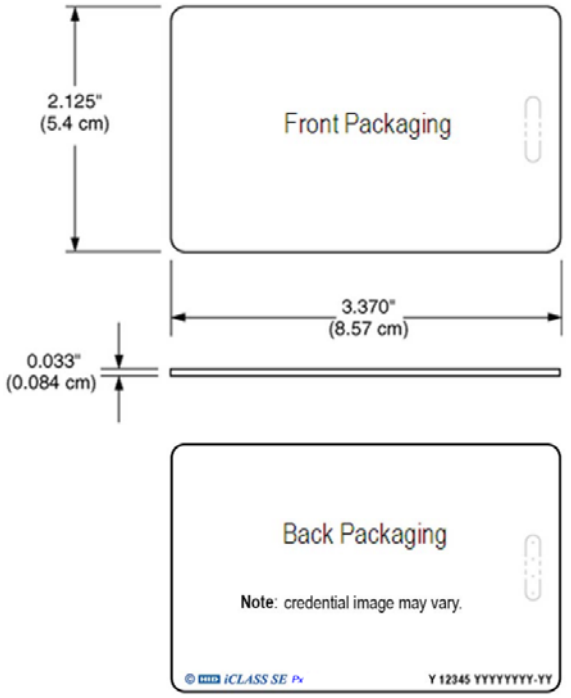
Front Packaging (Check One)
- ☐ G - Plain White with Gloss Finish
- ☐ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[1]

Back Packaging (Check One)
- ☐ G - Plain White with Gloss Finish[2]
- ☐ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[1]
- ☐ 1 - Plain White with Gloss Finish with Magnetic Stripe[2]
- ☐ 3 - Custom Artwork with Gloss Finish with Magnetic Stripe - Specify Custom Artwork Number[1]

13.56 MHz iCLASS Card Numbering[3] (Check One)
- ☐ M - Sequential Matching Internal/External (Inkjetted)
- ☐ N - No External Card Numbering
- ☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted)
- ☐ R - Random Internal/Non-Matching Sequential External (Inkjetted)
- ☐ A - Sequential Matching Internal/External (Laser Engraved)[4]
- ☐ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)[4]
- ☐ C - Random Internal/Non-Matching Sequential External (Laser Engraved)[4]

Slot Punch[5] (Check One)
- ☐ N - No Slot Punch (Printed location of vertical slot punch will remain)
- ☐ V - Vertical Slot Punch
- ☐ B - No Slot Punch - Horizontal Punch compatible (Printed location of Vertical and Horizontal slot punch will remain)[6]
- ☐ H - Horizontal Slot Punch[6]

125 kHz Card Numbering[3] (Check One)
- ☐ M - Sequential Matching Internal/External (Inkjetted)[7]
- ☐ N - No External Card Numbering
- ☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted)[7]
- ☐ R - Random Internal/Non-Matching Sequential External (Inkjetted)[7]
- ☐ A - Sequential Matching Internal/External (Laser Engraved)[4]
- ☐ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)[4]
- ☐ C - Random Internal/Non-Matching Sequential External (Laser Engraved)[4]



Y = iCLASS Programming
12345 = Card ID Number
YYYYYYYY-YY = Sales Order Number

Option - Custom Artwork[1]
☐ _____ (*Specify Artwork Number – Refer to the Custom Artwork Forms for new artwork*)

Enter your final card options from check boxes above. Example: 3111PGGNNN

Final Part Number		P						-	(Options #)

iCLASS Card Programming Information

Bit Numbers _____. (example: 26 bit) Format Number _____ (example: H10301)
Facility Code _____.
SE Elite ICE Number (if applicable) - _____.
(Custom Formats) Site Code _____. City Code _____. OEM Code _____.
Internal Card # Start _____. Stop _____. External Card # Start _____. Stop _____.

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125 kHz Card Programming Information

Bit Numbers _____(example: 26 bit)
Format Number _____ (example: H10301)
Facility Code ____
(Custom Formats) Site Code _____ City Code _____ OEM Code ____
Internal Card No. Start _____ Stop ____
External Card No. Start _____Stop ____
Special Instructions: _____.

[1] For new artwork files, contact Customer Service for custom artwork number, lead-times, and cost.
[2] Cards ordered with plain white front and back packaging, or custom artwork, will still have a small "HID logo" and reference number printed in the lower left-hand corner and a slot punch target printed on the back of the card.
[3] The external card number is placed in the bottom right-hand corner on the back of the card.
[4] For Laser Engraved external numbers, consult factory for lead times and cost.
[5] Cards are provided with an optional slot punch at no additional charge. Some video imaging printers cannot accommodate pre-slot punched cards.
[6] The ability to add a horizontal slot punch requires a different iCLASS antenna design. Users can expect a read range reduction of approximately 20% if they order options B or H for the Slot Punch.
[6] Please note that cards shipped out of North America are always laser-engraved. Inkjetted option is not available for these card.
* The composite construction is recommended for all cards with over-laminate applied. Consult with the printer manufacturer prior to ordering.

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392 - iCLASS SE / Other HF - Embeddable Card Ordering Guide

The SIO-Enabled iCLASS with MIFARE or MIFARE DESFire embeddable smart card offers multiple High Frequency technologies to simplify card issuance for diverse systems or migration projects. Add new applications while leveraging your investment in existing access control systems. Personalize the card with a photo ID, magnetic stripe, barcode, or anti-counterfeiting element. This card offers maximized compatibility with added security into installations that do not contain standard iCLASS or MIFARE/MIFARE DESFire credentials.
For MIFARE DESFire, this card is only made available with MIFARE DESFire EV1 (not DESFire 0.6).
This card is SIO only, it is not loaded with standard data payload and for this reason is not compatible with non iCLASS SE readers.
Ensure each required option has been checked with the appropriate choice to fulfill a completed order form.

Base Model ☐ **392 Composite 40% Polyester / PVC ***

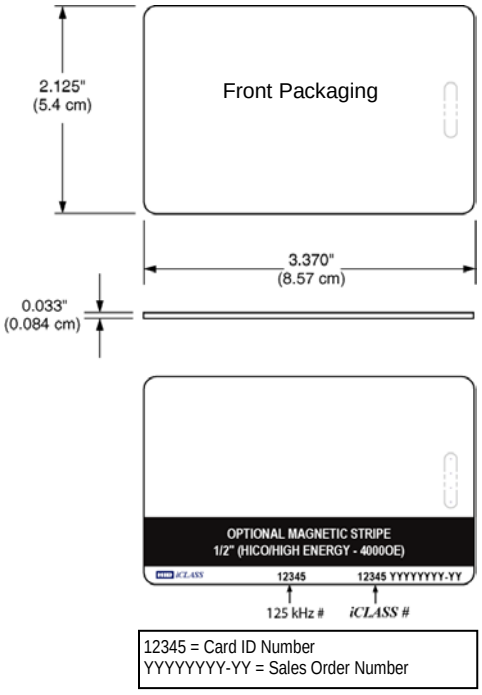
iCLASS Memory Size and Allocation (Check One)
- ☐ 0 - 2k Bits (256 Bytes) with 2 Application Areas (only available with MIFARE CLASSIC 1K)
- ☐ 3 - 32k Bits (4K Bytes) Application areas 16k/2+16k/1
- ☐ 4 - 32k Bits (4K Bytes) Application areas 16k/16+16k/1

Card Programming (Check One)
- ☐ R - SIO Programmed iCLASS & 2nd Technology. Specify Programming Information
- ☐ P - Programmed iCLASS with SIO only not 2nd Technology. Specify Programming Information.
- ☐ A - Configured, Non-Programmed iCLASS, SIO Programmed 2nd Technology. Specify Programming Information.

2nd High Frequency Technology (Check One)
- ☐ M - MIFARE 1K Bytes (only available with iCLASS 2k bits)
- ☐ N - MIFARE 4K Bytes
- ☐ K - MIFARE DESFire EV1 8K Bytes

Front Packaging (Check One)
- ☐ G - Plain White with Gloss Finish
- ☐ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[1]

Back Packaging (Check One)
- ☐ G - Plain White with Gloss Finish[2]
- ☐ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[1]
- ☐ 1 - Plain White with Gloss Finish with Magnetic Stripe[2]
- ☐ 3 - Custom Artwork with Gloss Finish with Magnetic Stripe - Specify Custom Artwork Number[1]



12345 = Card ID Number
YYYYYYYY-YY = Sales Order Number

iCLASS Card Numbering[3] (Check One)
- ☐ M - Sequential Matching Internal/External (Inkjetted)[7]
- ☐ N - No External Card Numbering
- ☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted)[7]
- ☐ R - Random Internal/Non-Matching Sequential External (Inkjetted)[7]
- ☐ A - Sequential Matching Internal/External (Laser Engraved)[4]
- ☐ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)[4]
- ☐ C - Random Internal/Non-Matching Sequential External (Laser Engraved)[4]

Slot Punch
IMPORTANT – Dual High Frequency credentials do not allow a slot punch due to the antenna design. Use a badge holder to attach this card to a lanyard or badge clip.

- ☒ N - No Slot Punch

2nd High Frequency Technology Card Numbering[3] (Check One)
- ☐ M - Sequential Matching Internal/External (Inkjetted)[7]
- ☐ N - No External Card Numbering
- ☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted)[7]
- ☐ R - Random Internal/Non-Matching Sequential External (Inkjetted)[7]
- ☐ A - Sequential Matching Internal/External (Laser Engraved)[4]
- ☐ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)[4]
- ☐ C - Random Internal/Non-Matching Sequential External (Laser Engraved)[4]
- ☐ W - UID (CSN) HEX numbering only (Engraved)[4]: 7 bytes UID[5]
- ☐ X - UID (CSN) Decimal numbering only (Engraved)[4]: 7 bytes UID[5]

Option - Custom Artwork[1]
- ☐ _____ (*Specify Artwork Number – Refer to the Custom Artwork Forms for new artwork*)

Enter your final card options from the above selections. Example: 3924PNGCMNN

Final Part Number	392							N		-	(Options #)

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iCLASS Programming Information	2nd 13.56 MHz Programming Information
Bit Numbers _____. (example: 26 bit)	Bit Numbers _____. (example: 26 bit)
Format Number _____. (example: H10301)	Format Number _____ (example: H10301)
Facility Code _____ .	Facility Code _____ .
SE Elite ICE Number (if applicable) - ____	SE Elite ICE Number (if applicable) - ____
(Custom Formats) Site Code____ . City Code _____.	(Custom Formats) Site Code____ . City Code _____ .
OEM Code _____.	OEM Code _____ .
Internal Card No. Start _____. Stop _____ .	Internal Card No. Start _____. Stop _____ .
External Card No. Start _____ . Stop _____ .	External Card No. Start _____ . Stop _____ .
	Special Instructions: _____.

[1] For new artwork files, contact Customer Service for custom artwork number, lead-times, and cost.
[2] Cards ordered with plain white front and back packaging, or custom artwork, will still have a small HID logo and reference number printed in the lower left-hand corner and a slot punch target printed on the back of the card.
[3] The external card number is placed in the bottom right-hand corner for iCLASS 13.56 MHz and in the bottom center for the second technology on the back of the card.
[4] For Laser Engraved external numbers, consult factory for lead times and cost.
[5] MIFARE Classic UID length is by default 4 bytes, 7 bytes for MIFARE DESFire EV1.
[6] Please note that cards shipped out of North America are always laser-engraved. Inkjetted option is not available for these card.
* The composite construction is recommended for all cards with over-laminate applied. Consult with the printer manufacturer prior to ordering.

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397 - iCLASS SE / Other 13.56MHz / Prox - Embeddable Card Ordering Guide

The SIO-enabled card with MIFARE or MIFARE DESFire embeddable smart card as well as HID Proximity offers multiple High Frequency technologies to simplify card issuance for diverse systems or migration projects. Add new applications while leveraging your investment in existing access control systems. Personalize the card with a photo ID, magnetic stripe, barcode, or anti-counterfeiting element. This card offers maximized compatibility with added security into installations that DO not contain standard iCLASS or MIFARE/MIFARE DESFire credentials.
For MIFARE DESFire, this card is only made available with MIFARE DESFire EV1 (not MIFARE DESFire 0.6).
This card is SIO only, it is not loaded with standard data payload and for this reason is not compatible with non iCLASS SE readers.
Ensure each required option has been checked with the appropriate choice to fulfill a completed order form.

Base Model ☐ **397 Composite 40% Polyester / PVC ***

iCLASS Memory Size and Allocation (Check One)
- ☐ 0 - 2k Bits (256 Bytes) with 2 Application Areas (only available with MIFARE CLASSIC 1K)
- ☐ 3 - 32k Bits (4K Bytes) Application areas 16k/2+16k/1
- ☐ 4 - 32k Bits (4K Bytes) Application areas 16k/16+16k

13.56 MHz Technology Card Programming (Check One)
- ☐ R - SIO Programmed iCLASS & 2nd Technology. Specify Programming Information
- ☐ P - Programmed iCLASS with SIO only not 2nd Technology. Specify Programming Information.
- ☐ A - Configured, Non-Programmed iCLASS, SIO Programmed 2nd Technology. Specify Programming Information.

2nd High Frequency (13.56 MHz) Technology (Check One)
- ☐ M - MIFARE 1K Bytes (only available with iCLASS 2k bits)
- ☐ N - MIFARE 4K Bytes
- ☐ K - MIFARE DESFire EV1 8K Bytes

125 kHz Technology Card Programming (Check One)
- ☐ P - "HID Prox" Programmed 125 kHz Technology. Specify Programming Information
- ☐ C - "Indala/Casi Prox" Programmed 125 kHz Technology. Specify Programming Information
- ☐ N - Initialized 125 kHz Technology. Programming Information Not Required

Front Packaging (Check One)
- ☐ G - Plain White with Gloss Finish
- ☐ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[1]

Back Packaging (Check One)
- ☐ G - Plain White with Gloss Finish[2]
- ☐ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[1]
- ☐ 1 - Plain White with Gloss Finish with Magnetic Stripe[2]
- ☐ 3 - Custom Artwork with Gloss Finish with Magnetic Stripe - Specify Custom Artwork Number[1]

iCLASS Card Numbering[3] (Check One)
- ☐ M - Sequential Matching Internal/External (Inkjetted)[6]
- ☐ N - No External Card Numbering
- ☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted)[6]
- ☐ R - Random Internal/Non-Matching Sequential External (Inkjetted)[6]
- ☐ A - Sequential Matching Internal/External (Laser Engraved)[4]
- ☐ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)[4]
- ☐ C - Random Internal/Non-Matching Sequential External (Laser Engraved)[4]

Slot Punch
IMPORTANT – Dual High Frequency credentials do not allow a slot punch due to the antenna design. HID recommends using a badge holder to attach this card to a lanyard or badge clip.
- ☒ N - No Slot Punch

2nd 13.56 MHz Card Numbering[3] (Check One)
- ☐ M - Sequential Matching Internal/External (Inkjetted)[6]
- ☐ N - No External Card Numbering
- ☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted)[6]
- ☐ R - Random Internal/Non-Matching Sequential External (Inkjetted)[6]
- ☐ A - Sequential Matching Internal/External (Laser Engraved)[4]
- ☐ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)[4]
- ☐ C - Random Internal/Non-Matching Sequential External (Laser Engraved)[4]
- ☐ W - UID (CSN) HEX numbering only (Engraved)[4]: 7 bytes UID[5]
- ☐ X - UID (CSN) Decimal numbering only (Engraved)[4]: 7 bytes UID[5]

125 kHz Card Numbering[3] (Check One)
- ☐ M - Sequential Matching Internal/External (Inkjetted)[6]
- ☐ N - No External Card Numbering
- ☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted)[6]
- ☐ R - Random Internal/Non-Matching Sequential External (Inkjetted)[6]
- ☐ A - Sequential Matching Internal/External (Laser Engraved)[4]
- ☐ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)[4]
- ☐ C - Random Internal/Non-Matching Sequential External (Laser Engraved)[4]

Option - Custom Artwork[1]
- ☐ _____ (*Specify Artwork Number – Refer to the Custom Artwork Forms for new artwork*)

Enter your final card options from the above selections. Example: 3974PNPGGNNM

Final Part Number								N		-	(Options #)

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iCLASS Programming Information

Bit Numbers _____. (*example: 26 bit)*
Format Number _____ (*example: H10301*)
Facility Code _____.
SE Elite ICE Number (if applicable) - _____
(Custom Formats) Site Code _____. City Code _____.
OEM Code _____.
Internal Card No. Start _____. Stop _____.
External Card No. Start _____. Stop _____.

2nd 13.56 MHz Programming Information

Bit Numbers _____. (*example: 26 bit)*
Format Number _____ (*example: H10301*)
Facility Code _____.
SE Elite ICE Number (if applicable) - _____
(Custom Formats) Site Code _____. City Code _____.
OEM Code _____.
Internal Card No. Start _____. Stop _____.
External Card No. Start _____. Stop _____.

125 kHz Programming Information

Bit Numbers _____. (*example: 26 bit)*
Format Number _____ (*example: H10301*)
Facility Code _____.
SE Elite ICE Number (if applicable) - _____
(Custom Formats) Site Code _____. City Code _____.
OEM Code _____.
Internal Card No. Start _____. Stop _____.
External Card No. Start _____. Stop _____.

[1] For new artwork files, contact Customer Service for custom artwork number, lead-times, and cost.
[2] Cards ordered with plain white front and back packaging, or custom artwork, will still have a small HID logo and reference number printed in the lower left-hand corner and a slot punch target printed on the back of the card.
[3] The external card number is placed in the bottom right-hand corner for iCLASS 13.56 MHz and in the bottom center for 125 kHz Proximity on the back of the card.
[4] For Laser Engraved external numbers, consult factory for lead times and cost.
[5] MIFARE Classic UID length is by default 4 bytes, 7 bytes for MIFARE DESFire EV1
[6] Please note that cards shipped out of North America are always laser-engraved. Inkjetted option is not available for these card.
* The composite construction is recommended for all cards with over-laminate applied. Consult with the printer manufacturer prior to ordering.

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1436/1446 - MIFARE Embeddable Card Ordering Guide

Ensure each required option has been checked with the appropriate choice to fulfill a completed order form.

Base Model ☐ *1436 (1K) Composite 40% Polyester / PVC ** ☐ *1446 (4K) Composite Polyester 40% / PVC **

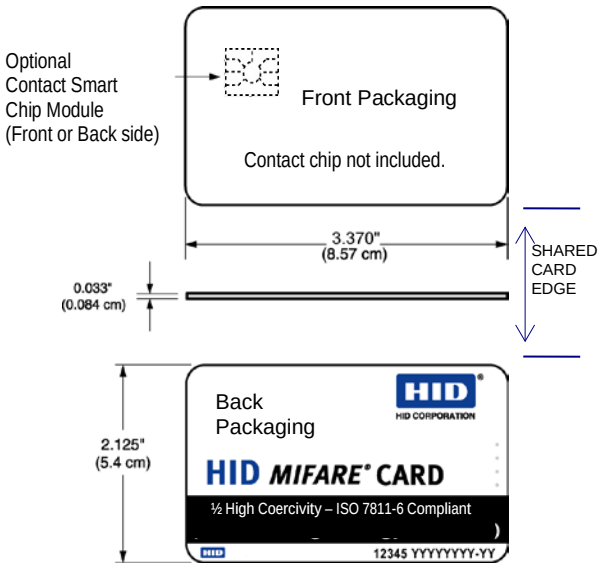
Programming (Check One)
- ☐ M - Programmed, (13.56 MHz with HID Format)[6]. Specify Programming Information.
- ☐ N - Non-Programmed (13.56 MHz)[6]. Programming Information Not Required.
- ☐ S - Custom Programmed, Specify Programming Information.

Front Packaging
If Custom Artwork is desired, specify Custom Artwork Number below[1]
- ☒ E - Contact Module Embeddable Plain Gloss White Finish

Back Packaging (Check One)
- ☐ G - Plain White with Gloss Finish[2]
- ☐ S - Standard MIFARE Artwork[2]
- ☐ 1 - Plain White with Gloss Finish with Magnetic Stripe[2]
- ☐ 2 - Standard MIFARE Artwork with Magnetic Stripe
- ☐ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[1, 2]
- ☐ 3 - Custom Artwork with Gloss Finish with Magnetic Stripe
  Specify Custom Artwork Number[1, 2]

Card Numbering[3] (Check One)
- ☐ M - Sequential Matching Internal/External (Inkjetted)[7]
- ☐ O - Sequential External only (Inkjetted)[7]
- ☐ N - No External Card Numbering
- ☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted)[7]
- ☐ R - Random Internal/Non-Matching Sequential External (Inkjetted) [7]
- ☐ A - Sequential Matching Internal/External (Laser Engraved)[4]
- ☐ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)[4]
- ☐ C - Random Internal/Non-Matching Sequential External (Laser Engraved)[4]

Slot Punch[5] (Check One)
- ☐ N - No Slot Punch *(Printed location of vertical slot punch will remain)*
- ☐ V - Vertical Slot Punch



12345 = Card ID Number
YYYYYYYY-YY = Sales Order Number

For a list of embeddable modules, contact your Regional Sales Representative.

Option - Custom Artwork[1]
☐ _____ (*Specify Artwork Number – Refer to the Custom Artwork Forms for new Artwork*)

Enter your final card options from check boxes above. Example: 1430NGGNN

Final Part Number			E				-	(*Options #*)

13.56 MHz Card Programming Information

Bit Numbers _____. (*example: 26 bit)* Format Number _____(*example: H10301*)

Facility Code _____.

(Custom Formats) Site Code _____. City Code _____. OEM Code _____.

Internal Card No. Start _____. Stop _____.

External Card No. Start _____. Stop _____.

Special Instructions: _____.

For Contact Smart Chip selection, contact your Regional Sales Representative. Standard configuration does not include a contact smart chip module.

[1] For new artwork files, contact Customer Service for custom artwork number, lead times, and cost.
[2] Cards ordered with plain white front and back packaging, with no HID artwork or with custom artwork, will still have a small HID logo and reference number printed in the lower left-hand corner and a slot punch target printed on the back of the card.
[3] The external card number is placed in the bottom right-hand corner on the back of the card on Prox Format Programming only. Permanent Unique MIFARE 32 Bit serial # cannot be printed on cards.
[4] For Laser Engraved external numbers, consult factory for lead times and cost.
[5] Cards are provided with an optional slot punch at no additional charge. Some video imaging printers cannot accommodate pre-slot punched cards. Consult with the printer manufacturer prior to ordering.
[6] Includes a permanent Unique MIFARE 32 Bit Serial number.
[7] Please note that cards shipped out of North America are always laser-engraved. Inkjetted option is not available for these card.
* The composite construction is recommended for all cards with over-laminate applied.

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1437/1447 - Combination (MIFARE + Prox) Embeddable Card Ordering Guide

Ensure each required option has been checked with the appropriate choice to fulfill a completed order form.

Base Model ☐ 1437 (1K) Composite 40% Polyester / PVC * ☐ 1447 (4K) Composite 40% Polyester / PVC *

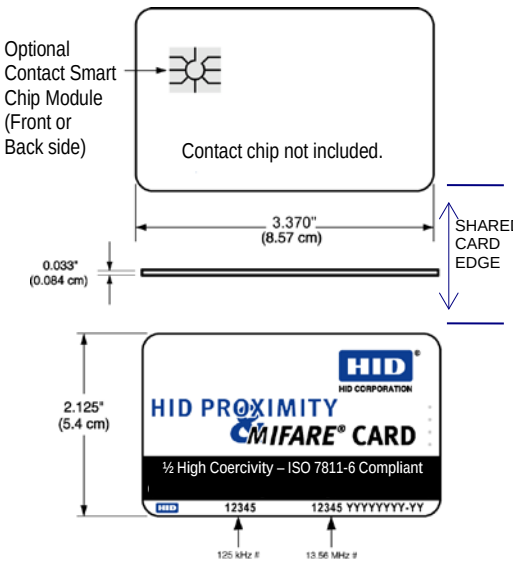
MIFARE Programming (Check One)

- ☐ L - Programmed, (125 kHz only with HID Format)[6]. Specify Programming Information.
- ☐ M - Programmed, (13.56 MHz only with HID Format)[6]. Specify Programming Information.
- ☐ B - Programmed, (125 kHz and 13.56 MHz with HID Format)[6]. Specify Programming Information.
- ☐ N - Non-Programmed (125 kHz and 13.56 MHz without HID Format)[6]. Programming Information Not Required.
- ☐ S - Custom Programmed, (13.56 MHz only)[6], Prox configured Specify Programming Information.
- ☐ R - Custom Programmed, (125 kHz and Custom 13.56 MHz with HID Format)[6], Specify Programming Information.

Front Packaging

If desiring Custom Printing, specify Custom Artwork Number below[1]

- ☒ E - Contact Module Embeddable Plain Gloss White Finish



12345 = Card ID Number
YYYYYYYY-YY = Sales Order Number

Back Packaging (Check One)

- ☐ G - Plain White with Gloss Finish[2]
- ☐ S - Standard HID Prox and MIFARE Artwork[2]
- ☐ 1 - Plain White with Gloss Finish with Magnetic Stripe[2]
- ☐ 2 - Standard MIFARE Artwork with Magnetic Stripe
- ☐ 3 - Custom Artwork with Gloss Finish with Magnetic Stripe - Specify Custom Artwork Number[1, 2]
- ☐ C - Custom Artwork with Gloss Finish - Specify Custom Artwork Number[1, 2]

13.56 MIFARE Card Numbering[3] (Check One)

- ☐ M - Sequential Matching Internal/External (Inkjetted)[7]
- ☐ O - Sequential External only (Inkjetted)[7]
- ☐ N - No External Card Numbering
- ☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted)[7]
- ☐ R - Random Internal/Non-Matching Sequential External (Inkjetted)[7]
- ☐ A - Sequential Matching Internal/External (Engraved)[4]
- ☐ B - Sequential Internal/Sequential Non-Matching External (Engraved)[4]
- ☐ C - Random Internal/Non-Matching Sequential External (Engraved)[4]

Slot Punch[5] (Check One)

- ☐ N - No Slot Punch (Printed location of vertical slot punch will remain)
- ☐ V - Vertical Slot Punch

125 kHz Prox Card Numbering[3] (Check One)

- ☐ M - Sequential Matching Internal/External (Inkjetted)[7]
- ☐ O - Sequential External only (Inkjetted)[7]
- ☐ N - No External Card Numbering
- ☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted)[7]
- ☐ R - Random Internal/Non-Matching Sequential External (Inkjetted)[7]
- ☐ A - Sequential Matching Internal/External (Engraved)[4]
- ☐ B - Sequential Internal/Sequential Non-Matching External (Engraved)[4]
- ☐ C - Random Internal/Non-Matching Sequential External (Engraved)[4]

For a list of embeddable modules, contact your Regional Sales Representative.

Option - Custom Artwork[1]

☐ _____ (*Specify Artwork Number – Refer to the Custom Artwork Forms for new Artwork*)

Enter your final card options from check boxes above. Example: 1441NGGNNN

Final Part Number			E						-	(Options #)

13.56 MHz Programming Information

Bit Numbers _____. (*example: 26 bit*)

Format Number _____ (*example: H10301*)

Facility Code _____.

(Custom Formats) Site Code _____. City Code _____.

OEM Code _____.

Internal Card No. Start _____. Stop _____.

External Card No. Start _____. Stop _____.

125 kHz Programming Information

Bit Numbers _____. (*example: 26 bit*)

Format Number _____ (*example: H10301*)

Facility Code _____.

(Custom Formats) Site Code _____. City Code _____.

OEM Code _____.

Internal Card No. Start _____. Stop _____.

External Card No. Start _____. Stop _____.

Special Instructions: _____.

For Contact Smart Chip selection, contact your Regional Sales Representative. Standard configuration does not include a contact smart chip module.

[1] For new artwork files, contact Customer Service for custom artwork number, lead times, and cost.

[2] Cards ordered with plain white front and back packaging, with no HID artwork or with custom artwork, will still have a small HID logo HID and reference number printed in the lower left-hand corner and a slot punch target printed on the back of the card.

[3] The external card number is placed in the bottom left-hand corner (125 kHz) and in the bottom right-hand corner (13.56 MHz) on the back of the card on Prox Programming only. Permanent unique MIFARE 32 Bit serial # cannot be printed on cards.

[4] For Laser Engraved external numbers, consult factory for lead times and cost.

[5] Cards are provided with an optional slot punch at no additional charge. Some video imaging printers cannot accommodate pre-slot punched cards. Consult with the printer manufacturer prior to ordering.

[6] Includes a permanent Unique MIFARE 32 Bit Serial number.

[7] Please note that cards shipped out of North America are always laser-engraved. Inkjetted option is not available for these card.

* The composite construction is recommended for all cards with over-laminate applied.

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1456 - MIFARE DESFire Embeddable Card Ordering Form Guide

Ensure each required option has been checked with the appropriate choice to fulfill a completed order form.
Note: Those EV1 cards can operate in a backward compatible mode and work with existing MIFARE DESFire systems supporting MIFARE DESFire 0.6

Base Model ☒ 1456 Composite 40% Polyester / PVC *

MIFARE DESFire EV1 Memory Size
☒ C - 8K Bytes MIFARE DESFire EV1

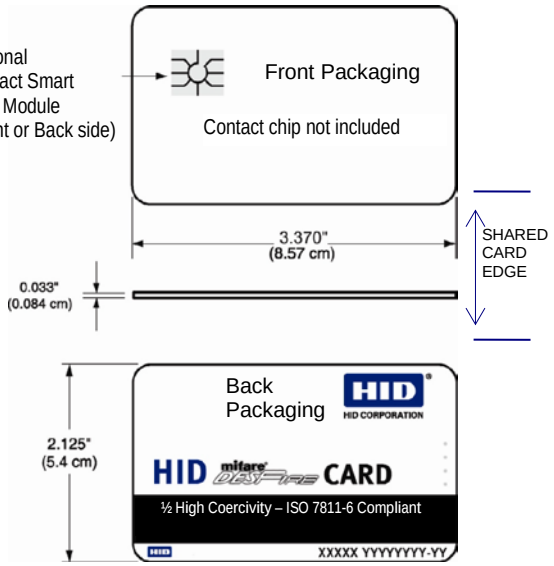
Programming (Check One)
☐ N - Non-Programmed (13.56 MHz)[6]. Programming Information Not Required.
☐ S - Custom Programmed, (13.56 MHz only)[6], Specify Programming Information.

Front Packaging
If desiring Custom Printing, specify Custom Artwork Number below[1]
☒ E - Contact Module Embeddable Plain Gloss White Finish

Back Packaging (Check One)
☐ G - Plain White with Gloss Finish[2]
☐ 1 - Plain White with Gloss Finish with Magnetic Stripe[2]
☐ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[1, 2]
☐ 3 - Custom Artwork with Gloss Finish with Magnetic Stripe - Specify Custom Artwork Number[1, 2]

Card Numbering[3] (Check One)
☐ M - Sequential Matching Internal/External (Inkjetted)[7]
☐ O - Sequential External only (Inkjetted)[7]
☐ N - No External Card Numbering
☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted)[7]
☐ R - Random Internal/Non-Matching Sequential External (Inkjetted)[7]
☐ A - Sequential Matching Internal/External (Laser Engraved)[4]
☐ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)[4]
☐ C - Random Internal/Non-Matching Sequential External (Laser Engraved)[4]

Slot Punch[5] (Check One)
☐ N - No Slot Punch *(Printed location of vertical slot punch will remain)*
☐ V - Vertical Slot Punch



12345 = Card ID Number
YYYYYYYY-YY = Sales Order Number

For a list of embeddable modules, contact your Regional Sales Representative.

Option - Custom Artwork[1]
☐ _____ (*Specify Artwork Number – Refer to the Custom Artwork Forms for new Artwork*)

Enter your final card options from check boxes above. Example: 1456CNEGNN

Final Part Number	1456	C		E				-	(*Options #*)

13.56 MHz Card Programming Information

Bit Numbers _____. (*example: 26 bit*) Format Number _____(*example: H10301*)

Facility Code _____.

(Custom Formats) Site Code _____. City Code _____. OEM Code _____.

Internal Card No. Start _____. Stop _____.

External Card No. Start _____. Stop _____.

Special Instructions: _____.

For Contact Smart Chip selection, contact your Regional Sales Representative. Standard configuration does not include a contact smart chip module.

[1] For new artwork files, contact Customer Service for custom artwork number, lead times, and cost.
[2] Cards ordered with plain white front and back packaging, with no HID artwork or with custom artwork, will still have a small HID logo HID and reference number printed in the lower left-hand corner and a slot punch target printed on the back of the card.
[3] The external card number is placed in the bottom right corner on the back of the card on Prox Format Programming only. Permanent Unique MIFARE 56 Bit serial # cannot be printed on cards.
[4] For Laser Engraved external numbers, consult factory for lead times and cost.
[5] Cards are provided with optional slot punch at no additional charge. Some video imaging printers cannot accommodate pre-slot punched cards. Consult the printer manufacturer prior to ordering.
[6] Includes a permanent Unique MIFARE 56 Bit Serial number.
[7] Please note that cards shipped out of North America are always laser-engraved. Inkjetted option is not available for these card.

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1457 - Combination (MIFARE DESFire + PROX) Embeddable Card Ordering Guide

Ensure each required option has been checked with the appropriate choice to fulfill a completed order form.
Note: Those EV1 cards can operate in a backward compatible mode and work with existing MIFARE DESFire systems supporting MIFARE DESFire 0.6

Base Model ☒ 1457 Composite 40% Polyester / PVC *

MIFARE DESFire EV1 Memory Size
☒ C - 8K Bytes MIFARE DESFire EV1

MIFARE DESFire Programming (Check One)
☐ L - Programmed, (125 kHz only)[6]. Specify Programming Information.
☐ N - Non-Programmed (125 kHz and 13.56 MHz)[6]. Programming Information Not Required.
☐ S - Custom Programmed, (13.56 MHz only)[6], Prox Configured Specify Programming Information.
☐ R - Custom Programmed, (125 kHz and Custom 13.56 MHz)[4, 6], Specify Programming Information.

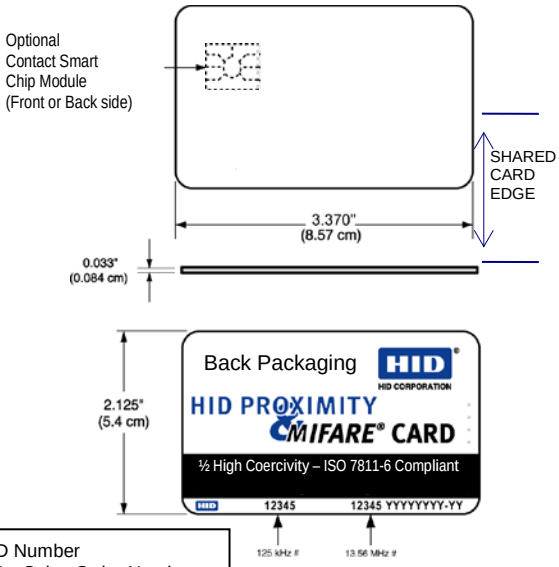
Front Packaging
If desiring Custom Printing, specify Custom Artwork Number below.[1]
☒ E - Contact Module Embeddable Plain Gloss White Finish

Back Packaging (Check One)
☐ G - Plain White with Gloss Finish[2]
☐ 1 - Plain White with Gloss Finish with Magnetic Stripe[2]
☐ 3 - Custom Artwork with Gloss Finish with Magnetic Stripe - Specify Custom Artwork Number[1, 2]
☐ C - Custom Artwork with Gloss Finish - Specify Custom Artwork Number[1, 2]

13.56 MIFARE DESFire Card Numbering[3] (Check One)
☐ M - Sequential Matching Internal/External (Inkjetted) [7]
☐ O - Sequential External only (Inkjetted) [7]
☐ N - No External Card Numbering
☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted) [7]
☐ R - Random Internal/Non-Matching Sequential External (Inkjetted) [7]
☐ A - Sequential Matching Internal/External (Engraved)[4]
☐ B - Sequential Internal/Sequential Non-Matching External (Engraved)[4]
☐ C - Random Internal/Non-Matching Sequential External (Engraved)[4]

Slot Punch[5] (Check One)
☐ N - No Slot Punch (Printed location of vertical slot punch will remain)
☐ V - Vertical Slot Punch

125 kHz Prox Card Numbering[3] (Check One)
☐ M - Sequential Matching Internal/External (Inkjetted) [7]
☐ O - Sequential External only (Inkjetted) [7]
☐ N - No External Card Numbering
☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted)[7]
☐ R - Random Internal/Non-Matching Sequential External (Inkjetted) [7]
☐ A - Sequential Matching Internal/External (Engraved)[4]
☐ B - Sequential Internal/Sequential Non-Matching External (Engraved)[4]
☐ C - Random Internal/Non-Matching Sequential External (Engraved)[4]



12345 = Card ID Number
YYYYYYYY-YY = Sales Order Number

For a list of embeddable modules, contact your Regional Sales Representative.

Option - Custom Artwork[1]
☐ _____ (*Specify Artwork Number – Refer to the Custom Artwork Forms for new Artwork*)

Enter your final card options from check boxes above. Example: 1457CNEGNNN

Final Part Number	1457	C				E					-	(Options #)

13.56 MHz Programming Information

Bit Numbers . (example: 26 bit)
Format Number (example: H10301)
Facility Code_____.
(Custom Formats) Site Code _____. City Code _____.
OEM Code _____.
Internal Card No. Start _____. Stop _____.
External Card No. Start _____. Stop _____.
Bit Numbers_____. (*example: 26 bit*)

125 kHz Programming Information

Format Number_____(*example: H10301*)
Facility Code_____.
(Custom Formats) Site Code _____. City Code _____.
OEM Code _____.
Internal Card No. Start _____. Stop _____.
External Card No. Start _____. Stop _____.
Special Instructions: _____.

For Contact Smart Chip selection, contact your Regional Sales Representative. Standard configuration does not include a contact smart chip module.

[1] For new artwork files, contact Customer Service for custom artwork number, lead times, and cost.
[2] Cards ordered with plain white front and back packaging, with no HID artwork or with custom artwork, will still have a small HID logo HID and reference number printed in the lower left-hand corner and a slot punch target printed on the back of the card.
[3] The external card number is placed in the bottom left-hand corner (125 kHz) and in the bottom right-hand corner (13.56 MHz) on the back of the card on Prox Programming only. Permanent unique MIFARE 56 Bit serial # cannot be printed on cards.
[4] For Laser Engraved external numbers, consult factory for lead times and cost..
[5] Cards are provided with an optional slot punch at no additional charge. Some video imaging printers cannot accommodate pre-slot punched cards. Consult with the printer manufacturer prior to ordering.
[6] Includes a permanent Unique MIFARE 56 Bit Serial number.
[7] Please note that cards shipped out of North America are always laser-engraved. Inkjetted option is not available for these card.
* The composite construction is recommended for all cards with over-laminate applied.

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501 - iCLASS Seos Embeddable Card Ordering Guide

Increased security and interoperability cards for installation supporting iCLASS SE platform.
Ensure each required option has been checked with the appropriate choice to fulfill a completed order form.

Base Model ☒ 501 Composite 40% Polyester / PVC 60%

iCLASS Memory Size and Allocation
- ☐ 5 - 16K Bytes
- ☐ 6 - 8K Bytes

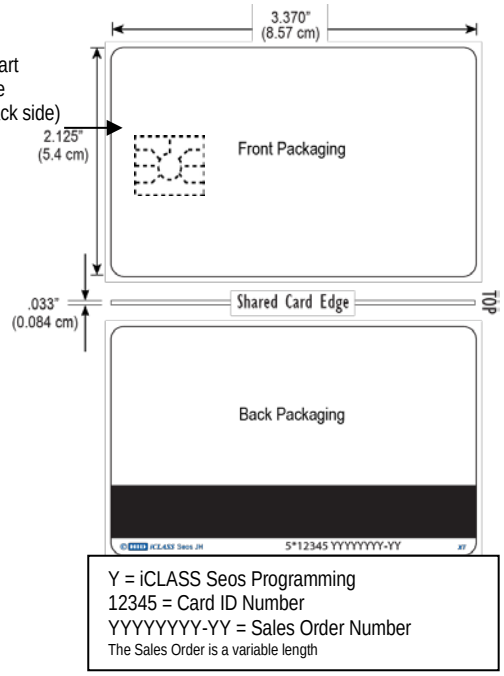
Secure Identity Object Programming
- ☒ P - Programmed with Security Identity Object (SIO)

Front Packaging (Check One)
- ☐ G - Plain White with Gloss Finish
- ☐ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[1]

Back Packaging (Check One)
- ☐ G - Plain White with Gloss Finish[2]
- ☐ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[1]
- ☐ 1 - Plain White with Gloss Finish with Magnetic Stripe[2]
- ☐ 3 - Custom Artwork with Gloss Finish with Magnetic Stripe - Specify Custom Artwork Number[1]

Card Numbering[3] (Check One)
- ☐ M - Sequential Matching Internal/External (Inkjetted)[5]
- ☐ N - No External Card Numbering
- ☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted)[5]
- ☐ R - Random Internal/Non-Matching Sequential External (Inkjetted)[5]
- ☐ A - Sequential Matching Internal/External (Laser Engraved)[4]
- ☐ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)[4]
- ☐ C - Random Internal/Non-Matching Sequential External (Laser Engraved)[4]

Slot Punch
- ☒ N - No Slot Punch



Option - Custom Artwork[1]
- ☐ (Specify Artwork Number – Refer to the Custom Artwork Forms for new artwork)

Enter your final card options from check boxes above. Example: 5015PGGNN

Final Part Number	501		P			N		-	(Options #)

iCLASS Seos Card Programming Information

Bit Numbers _____ . (example: 26 bit) Format Number _____ (example: H10301)
Facility Code _____ .
SE Elite ICE Number (if applicable) - _____ .
(Custom Formats) Site Code _____ . City Code _____ . OEM Code _____ .
Internal Card # Start _____ . Stop _____ .
External Card # Start _____ . Stop _____ .
Special Instructions: _____ .

For Contact Smart Chip selection, contact your Regional Sales Representative. Standard configuration does not include a contact smart chip module.

[1] For new artwork files, contact Customer Service for custom artwork number, lead-times, and cost.
[2] Cards ordered with plain white front and back packaging, or custom artwork, will still have a small HID logo and reference number printed in the lower left-hand corner and a slot punch target printed on the back of the card.
[3] The external card number is placed in the bottom right-hand corner on the back of the card.
[4] For Laser Engraved external numbers, consult factory for lead times and cost.
[5] Please note that cards shipped out of North America are always laser-engraved. Inkjetted option is not available for these card.

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511 - iCLASS Seos + Prox Embeddable Card Ordering Guide

Migration solution from proximity to high security for support in iCLASS SE platform.
Ensure each required option has been checked with the appropriate choice to fulfill a completed order form.

Base Model ☒ *511 Composite 40% Polyester / PVC*

iCLASS Memory Size and Allocation
- ☐ 5 - 16K Bytes
- ☐ 6 - 8K Bytes

Secure Identity Object Programming (Check One)
- ☐ P - Programmed with Security Identity Object (SIO), Prox non programmed
- ☐ R - Both interfaces programmed: iCLASS Seos with Security Identity Object (SIO), Prox programmed with HID format

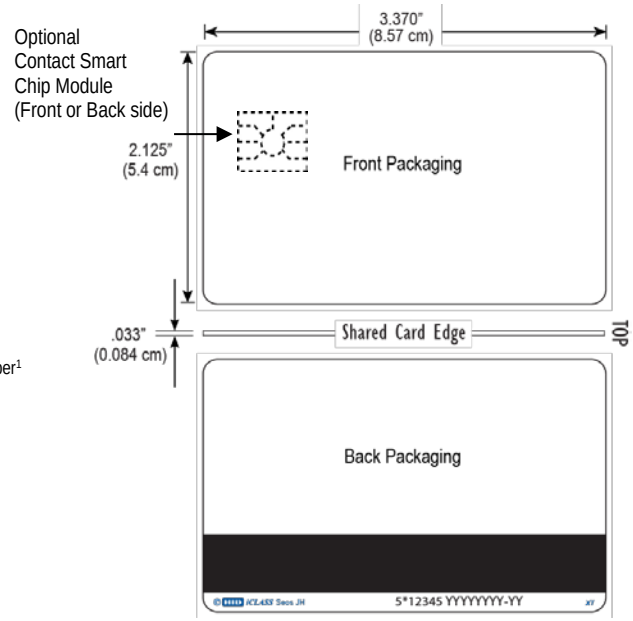
Front Packaging (Check One)
- ☐ G - Plain White with Gloss Finish
- ☐ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[1]

Back Packaging (Check One)
- ☐ G - Plain White with Gloss Finish[2]
- ☐ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[1]
- ☐ 1 - Plain White with Gloss Finish with Magnetic Stripe[2]
- ☐ 3 - Custom Artwork with Gloss Finish with Magnetic Stripe Specify Custom Artwork Number[1]

13.56 MHz iCLASS Card Numbering[3] (Check One)
- ☐ M - Sequential Matching Internal/External (Inkjetted)[5]
- ☐ N - No External Card Numbering
- ☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted)[5]
- ☐ R - Random Internal/Non-Matching Sequential External (Inkjetted)[5]
- ☐ A - Sequential Matching Internal/External (Laser Engraved)[4]
- ☐ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)[4]
- ☐ C - Random Internal/Non-Matching Sequential External (Laser Engraved)[4]

Slot Punch
- ☒ N - No Slot Punch

125 kHz Card Numbering[3] (Check One)
- ☐ M - Sequential Matching Internal/External (Inkjetted)[5]
- ☐ N - No External Card Numbering
- ☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted)[5]
- ☐ R - Random Internal/Non-Matching Sequential External (Inkjetted)[5]
- ☐ A - Sequential Matching Internal/External (Laser Engraved)[4]
- ☐ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)[4]
- ☐ C - Random Internal/Non-Matching Sequential External (Laser Engraved)[4]



Y = iCLASS Seos Programming
12345 = Card ID Number
YYYYYYYY-YY = Sales Order Number
Sales Order is a variable length

Option - Custom Artwork[1]
☐ (Specify Artwork Number – Refer to the Custom Artwork Forms for new artwork)

Enter your final card options from check boxes above. Example: 5115PGGNNN

Final Part Number	511						N		-	(Options #)

iCLASS Seos Card Programming Information

Bit Numbers . (example: 26 bit)
Format Number (example: H10301)
Facility Code_____.
SE Elite ICE Number (if applicable) - _____.
(Custom Formats) Site Code _____. City Code _____.
OEM Code _____.
Internal Card No. Start _____. Stop _____.
External Card No. Start _____. Stop _____.
Bit Numbers_____. *(example: 26 bit)*

125 kHz Programming Information

Format Number_____(*example: H10301*)
Facility Code_____.
(Custom Formats) Site Code _____. City Code _____.
OEM Code _____.
Internal Card No. Start _____. Stop _____.
External Card No. Start _____. Stop _____.
Special Instructions: _____.

For Contact Smart Chip selection, contact your Regional Sales Representative. Standard configuration does not include a contact smart chip module.

[1] For new artwork files, contact Customer Service for custom artwork number, lead-times, and cost.
[2] Cards ordered with plain white front and back packaging, or custom artwork, will still have a small HID logo " " and reference number printed in the lower left-hand corner and a slot punch target printed on the back of the card.
[3] The external card number is placed in the bottom right-hand corner on the back of the card.
[4] For Laser Engraved external numbers, consult factory for lead times and cost.
[5] Please note that cards shipped out of North America are always laser-engraved. Inkjetted option is not available for these card.

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Card Packages

iCLASS / Prox Combo Cards (for iCLASS or Prox on the Desktop)

2124BG3MNN-10PAK iCLASS 32K (16K/16 + 16K/1) and HID Prox

Use *iCLASS / Prox / mag* combination cards to test both *Prox on the Desktop* and *iCLASS on the Desktop* solutions. These cards are pre-programmed with an HID 26 bit format and printed on one-side. The front side is left blank and suitable for dye sublimation imaging, if desired.

Crescendo (for Crescendo on the Desktop)

Use Contact Chip / Prox / (iCLASS or MIFARE) / mag combination cards to test all HID on the Desktop solutions. While they are primarily offered to test Crescendo on the Desktop, you can use these cards to test Prox on the Desktop and iCLASS on the Desktop. These cards are pre-programmed with an HID 26 bit format and printed on one-side. The front side is left blank and suitable for dye sublimation imaging, if desired.

Note: To test iCLASS on the Desktop with a Crescendo card, you must order one of the two models that contain the iCLASS technology.

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DisplayCard Platforms

DisplayCard platforms are designed for combined physical and logical access control. The self-powered DisplayCard is equipped with a high contrast 6-digits LCD and an activation button that allows generating a One Time password. The smart card is able to include contactless options iCLASS and Prox to support your existing physical access control.

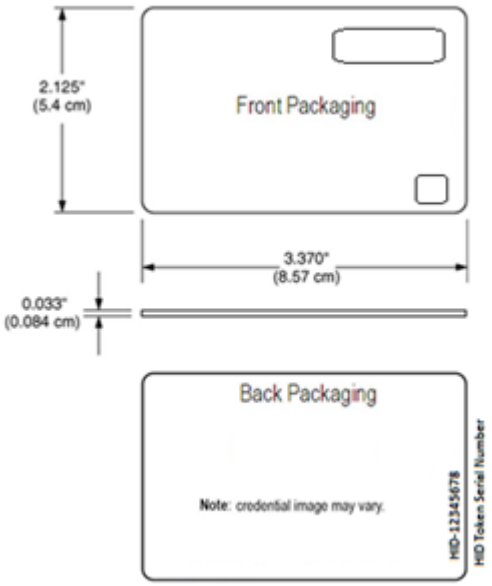
Ensure to check each option with the appropriate values to fulfill a completed order form.

DisplayCard

Base Model: ☒ BDC1XX00HID100 – PVC[4] Single Button DisplayCard for OTP Generation
Order minimum quantities of 100.

Front and Back Packaging (Check One)
☐ 1 - HID branded

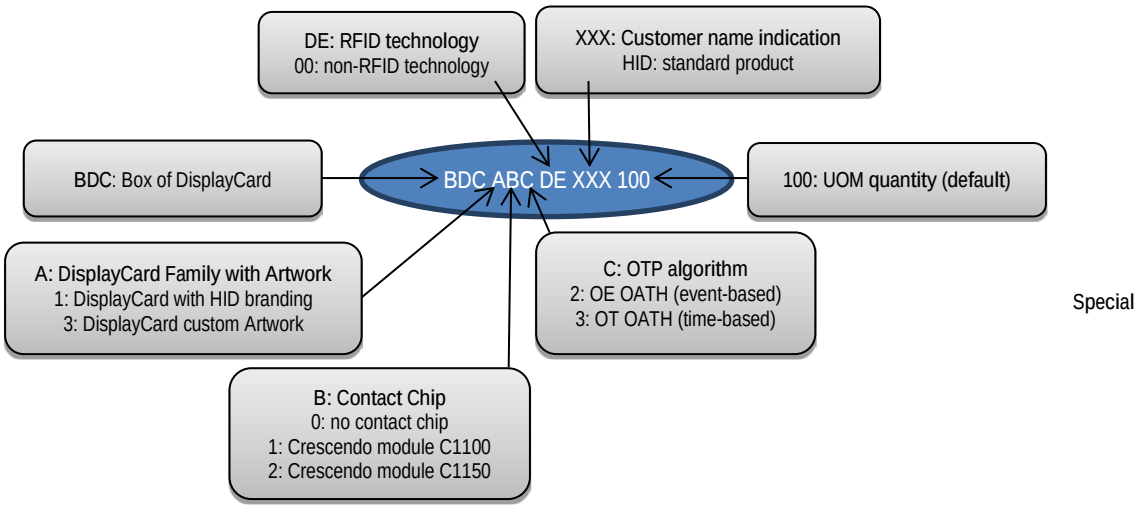
☐ 3 - Custom Artwork – Specify Custom Artwork Number[1]



Contact Chip[2]
☐ 0 - No contact chip
☐ 1 - Crescendo contact Chip C1100
☐ 2 - Crescendo contact Chip C1150

Algorithm for One Time Password
☒ 2 - OATH Event-based (HOTP)
☐ 3 - OATH Time-based (TOTP)[2]

Enter your final card options from check boxes above. Example:
BDC10200HID100 (HID branded DisplayCard – HOTP algorithm)



Special

Final Part Number	BDC	1	0	2	00	HID	100

Instructions: _____.

[1] For new artwork files, contact Customer Service for artwork form, lead-times, and cost.
[2] This option involves customization fees and Minimum Order Quantity – Contact Customer Service for lead-times and cost.[4] The PVC card does not support HDP Printers

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Contactless DisplayCard

Base Model: ☒ BDC200XXHID100 – Composite Plain White DisplayCard Single Button with iCLASS and Prox
Order minimum quantities of 100.

Front and Back Packaging (Check One)[3]
☐ 1 - HID branded
☐ 2 - Plain White (HDP5000 and HDP8500 supported)[2]
☐ 3 - Custom Artwork – Specify Custom Artwork Number[1]

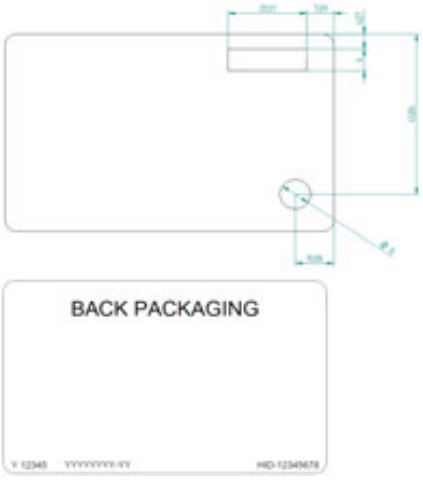
Option: Contact Chip
☐ 0 - No contact chip

Algorithm for One Time Password
☒ 2 - OATH Event-based (HOTP)

iCLASS Type and Memory Size and Allocation
☒ 10 - iCLASS SE 2k Bits (256 Bytes) with 2 Application Areas

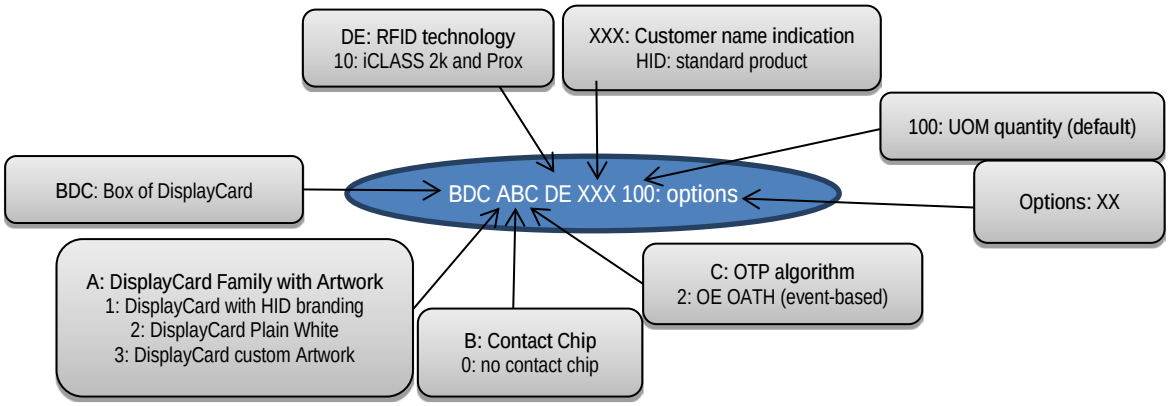
Option – Secure Identity Object Programming
☒ H - Programmed with Security Identity Object (SIO)

Combo iCLASS and Prox
☐ P - Programmed iCLASS only and Prox initialized. *(Specify Programming)*
☐ B - Programmed 125 kHz Proximity and iCLASS. *(Specify Programming)*



Y = iCLASS Programming – HID-12345678: Card number
YYYYYYYY-YY = Sales Order Number

Enter your final card options from check boxes above. Example: BDC20010HID100:HB (White DisplayCard-Oath Event-based algorithm with iCLASS 2K and Prox contactless technology and programmed with dual payload card)



Final Part Number	BDC	2	0	2	10	HID	100	-	H	(Options #)

Programming Information						
iCLASS				125 kHz		
Format (i.e. H10301)				Format (i.e. H10301)		
Facility / Site Code				Facility / Site Code		
Additional Field Data[5]				Additional Field Data[5]		
Internal Card No. Start				Internal Card No. Start		
External Card No.	☐ None	☐ Random		External Card No.	☐ None	☐ Random
	☐ Matching	☐ Non-Matching			☐ Matching	☐ Non-Matching
External Start No.	(If not Matching)			External Start No.	(If not Matching)	
Optional PIN:	☐ Sequential:	Start #		☐ HID ☐ Indala ☐ Casi Compatible		
	☐ Random:	Length				
Optional Elite Key:	ICE #					

Special Instructions: _____.

[1] For new artwork files, contact Customer Service for artwork form, lead-times, and cost.
[2] Cards ordered with plain white front and back packaging, or custom artwork, will still have reference number.
[3] The Manufacturing Legend is required on all cards. External Card Marking is used to trace manufacturing lots and provide readable serialization
[4] This option involves customization fees and Minimum Order Quantity – Contact Customer Service for lead-times and cost.

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[5] Though most formats require two fields (site code and card number), use this area for additional values if required by the format.

Desktop Smart Card Readers

Reader Ordering Guide

Each OMNIKEY Smart Card Reader has a unique part number. These numbers as listed below and always represent the standard product. Customized products will receive an individual part number upon confirmation of the order. All part numbers must be complete for acceptance by THE HID Global order entry system.

Due to organizational changes, product improvements, and firmware changes, part numbers of OMNIKEY Smart Card Readers can be subject to change.

The following ordering is available for OMNIKEY Readers.

*** TAA** - TAA stands for Trade Agreements Act of 1979. The TAA is an Act of Congress that governs trade agreements negotiated between the United States and other countries. Provided is a list of countries in which United States institutions may purchase devices.

Table 1 - OMNIKEY Smart Card Readers

OMNIKEY Model PC Interface	Customization Options	Description		Part Number	TAA* Part Number	Solution Compatibility
3021 USB	▪ Logo ▪ Housing Color ▪ Cable	▪ USB 2.0 ▪ EMV, CCID ▪ Transparent/ grey housing ▪ TAA compliant ▪ MOQ 100 ▪ Order quantity multiples of 100		R30210315-1	R30210315-1	Crescendo
3121 USB	▪ Logo ▪ Housing Color ▪ Cable ▪ Landing Contacts	▪ USB 2.0 ▪ EMV, CCID ▪ Standard standing base ▪ MOQ 100 ▪ Order quantity multiples of 100		R31210320-01	R31210349-1	Crescendo
3121 USB (Heavy standing base)	▪ Logo ▪ Housing Color ▪ Cable ▪ Landing Contacts	▪ Contact Reader ▪ EMV, CCID ▪ Heavy standing base (100 gram) and middle piece ▪ TAA compliant		R31210320-01 + accessory A00000002	R31210349-1 + accessory A00000002	Crescendo
3121 USB (Jumbo standing base)	▪ Logo ▪ Housing Color ▪ Cable ▪ Landing Contacts	▪ Contact Reader ▪ EMV, CCID ▪ Jumbo standing base (431 gram) and middle piece ▪ TAA compliant		R31210320-01 + accessory A00000003	R31210349-1 + accessory A00000003	Crescendo
5022 CL USB	▪ Logo ▪ Housing Color ▪ Cable	▪ Contactless (13.56 MHz) Desktop Reader ▪ Available in various color options ▪ Optional Card Retainer & Mounting Accessories		R50220318-DB (Dark Blue) R50220318-GR (Grey) (See Mounting Accessory Pack and Card Retainer)	N/A	iCLASS ActivID Tap
5023 USB	▪ Logo ▪ Housing Color ▪ Cable	▪ Contactless (13.56 MHz) Desktop Reader with integrated Secure Element ▪ Optional Card Retainer & Mounting Accessories		R50230318-DB (Dark Blue) (See Mounting Accessory Pack and Card Retainer)	N/A	iCLASS iCLASS SE iCLASS Elite Seos ActiveID TAP

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OMNIKEY Model PC Interface	Customization Options	Description		Part Number	TAA* Part Number	Solution Compatibility
5025 CL USB	▪ Logo ▪ Housing Color ▪ Cable	▪ Contactless (125 kHz) Desktop Reader for HID Prox Credentials ▪ Full CCID compatibility ▪ For Thin- and Zeroclients ▪ 5325CL compatibility mode ▪ Available in various color options ▪ Optional Card Retainer & Mounting Accessories		R50250001-GR (Grey) (See Mounting Accessory Pack , Card Retainer and Color Pack)	N/A	HID Prox
5421 USB	▪ Logo ▪ Housing Color ▪ Cable	▪ Dual Interface (13.56 MHz Contactless and Contact Reader) ▪ Compatible with all major smart card technologies, tags and new technologies such as NFC ▪ Supports HID iCLASS, MIFARE and MIFARE DESFire as well as ISO 7816, ISO 14443 A/B and ISO 15693		R54210001 (See Vertical Standing Base, Mounting Accessory Pack and Card Retainer)	N/A	Crescendo iCLASS
5427 CK (USB Interface)	▪ Logo ▪ Housing Color ▪ Cable	▪ Contactless (13.56 MHz & 125 kHz HID Prox) Smart Card Reader ▪ Seos support ▪ CCID or Keyboard Wedge Operation Mode ▪ Closed Housing ▪ Web-based configuration interface ▪ Transparent card retainer		R54270001(base model) R54270001-Elite *(Elite key support)* R54270001-Indala *(Custom Indala format)* R54270001-V2-Indala *(V2 security +Custom Indala format)* R54270001-Elite-Indala *(Elite +Custom Indala format)* (See Vertical Standing Base and Mounting Accessory Pack)	N/A	HID Prox Indala iCLASS iCLASS SE iCLASS Elite Seos
6121 USB Dongle	▪ Logo ▪ Housing Color	▪ EMV, CCID ▪ ISO 7816 SIM-Size (ID-000) contact slot ▪ USB 2.0 Key-ring attachable ▪ EMV, CCID ▪ MOQ 100 ▪ Order quantity multiples of 100		R61210320-2	N/A	

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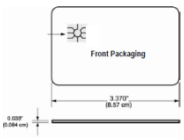
Accessories Ordering Guide

OMNIKEY Model PC Interface	Customization Options	Description		Part Number	TAA* Part Number	Solution Compatibility
Heavy standing base 31xx		▪ Heavy standing base ▪ Middle piece ▪ Weight includes middle piece 100 gram			A00000002	OMNIKEY 3121
Mounting Accessory Pack		▪ Packaging size 10 pcs. ▪ Mounting Jacket for Screw-on mount ▪ Mounting Jacket Camera mounting screw use (hex nut) ▪ Adhesive Strip for mounting jacket		A50210001		OMNIKEY 5021 OMNIKEY 5022 OMNIKEY 5023 OMNIKEY 5025 OMNIKEY 5421 OMNIKEY 5427
Color Pack		▪ Bag with covers in 6 different colors for OMNIKEY 50xx housing, ▪ bulk packed, 1 piece of each color (blue, dark blue, green, anthracite, orange, red)		A50210003		OMNIKEY 5021 OMNIKEY 5022 OMNIKEY 5023 OMNIKEY 5025
Card Retainer		▪ Packaging size 10 pcs. ▪ Card Retainer for card-present operation		A50210002		OMNIKEY 5021 OMNIKEY 5022 OMNIKEY 5023 OMNIKEY 5025
Card Retainer		▪ Packaging size 10 pcs. ▪ Card Retainer for card-present operation		A54210001		OMNIKEY 5421 OMNIKEY 5427
Vertical Standing Base (black)		▪ Standing base for vertical reader ▪ Supports card-present operation ▪ Weight approx. 90 gram ▪ Packaging size 1 pcs.		A54270001		OMNIKEY 5427
Vertical Standing Base (grey)		▪ Standing base for vertical reader ▪ Supports card-present operation ▪ Weight approx. 90 gram ▪ Packaging size 1 pcs.		A54210002		OMNIKEY 5421
Configuration Card for OK5427 CK		▪ Packaging size 1 pcs. ▪ Configuration Card for OK5427CK ▪ 8K Bytes MIFARE DESFire EV1 ▪ Not programmed		1450cnggnn		OMNIKEY 5427CK

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Development Tool Kit OMNIKEY 5x27CK - 3134ANL0000

Parts

Developer Tools

1 - USB Flash Drive (Drivers, Software, Documentation, Release Notes)

Reader Boards & Accessories

1 - 5127CK Reader Board
1 - 5427CK Reader

Sample Credentials

1 - MIFARE Classic 1K Card
1 - MIFARE DESFire EV1 Card
1 - iCLASS 16K/16 Card
1 - HID ISOPROX II Card

OMNIKEY Customization Program

HID offers a number of standard customizations for its OMNIKEY Smart Card Readers. The following standard customization options exist.

Standard Customization Options

Landing Contacts – Replace the sliding contacts unit (default) with landing contacts
No Logo - no HID Logo on reader
Logo - Alternative Logo on the reader
Housing - Alternative housing color
Label - Alternative product label
Cable - Alternative Length

The following rules apply to all standard customizations:

Minimum Order Quantities (MOQ) may apply (depending on the requested customization)
Addition costs for setup (NRE) and per unit may apply
Additional Sign-off processes may be required (for example, special artwork and samples)
Lead time increases (due to additional approval and production procedures)

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OMNIKEY Order Form for Standard Customization Requests

This form, accompanied with the Custom Artwork files, MUST be filled out, SIGNED and returned to HID so that your order can be processed.

Full HID Part Number to be customized: ____
Base Product Name: ____
Quantity: ____
Desired Delivery Date: ____
HID Sales Manager: ____

Customer Contact Information (for Customization Approval & Artwork Sign Off)
HID Customer Number: ____
Company: ____
Contact Name: ____
Contact Email: ____
Contact Phone: ____
Contact Shipping Address (for Samples): ____
____
____

Customization Options:
For a full list including non-standard customization options available for the HID OMNIKEY Smart Card Readers, contact your Sales Manager.
See the availability of customizations per OMNIKEY reader in Table 1 - OMNIKEY Smart Card Readers (column Customization Options).

☐ Landing Contact Unit. No additional information required.

Customization option available for 3121 and 3111 reader family.
MOQ is 500 pcs.

☐ Neutral – No HID Logo. No additional information required.

Customization option is available for all readers except: 4040, 4121, 4321, 2061 and 3921 reader families.
MOQ is 500 pcs.

☐ Logo Printing – Alternative Reader Logo. Complete all fields.
Housing part to customize (e.g. cap, main body): ____
Color Codes in Pantone for all colors used in logo: ____
For all text elements- font style, size, position & color: ____
Attached custom artwork file name & format (e.g. PDF, AI, JPG): ____
Resolution must be at least 600 dpi.
Logo positioning (description / attached drawings file): ____

Customization option is available for all readers except 4040, 4121, 4321, 5321 CR, 2061 and 3921 reader families.
MOQ is 500 pcs.

☐ Housing – Alternative Housing Color. Complete all fields.
Housing part to customize (e.g. cap, main body): ____
Color Code(s) in Pantone Plastic: ____
Customization option is available for all readers except 4040, 4121, 4321, 2061 and 5321 CR readers.
MOQ is 5.000 pcs.

☐ Labeling – Alternative Product Label. Complete all fields.
Attached custom artwork file name & format (e.g. PDF, AI, JPG): ____
Resolution must be at least 600 dpi.
Color Codes & coding system for all colors in label: ____

Customization option available for the *top* label of 4040, 4121 and 4321 reader families.
MOQ is 500 pcs.

☐ Cable - Alternative Cable Length. Complete all fields.
Desired cable length in centimeters (cm): ____

Customization option available for all readers except 2061, 4040, 4121, 4321, 3621, 3821 and 6x21 reader families.
MOQ is 5.000 pcs.

Additional Comments (optional)
Add further comments for your customization request as necessary.

____
____
____
____

Name: _____ Signature: _____ Date: _____

Send this form to your sales or customer service representative for further processing.

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Appendix

Custom Cards

Artwork Checklist

Company Name: PO No.: Date:

Quantity: Card Artwork File No.:

Minimum order quantity for Custom Artwork is 500 cards per order. Some Custom Artworks may be higher.

This form, accompanied with the Custom Artwork placement and Inkjet Location Form MUST be filled out, SIGNED and returned to HID so that your order can be processed.

Credential Type: Composite PVC/Polyester[1] Cards (Additional fee and longer lead time)

- ☐ 402/407 Crescendo Card
- ☐ 400 Combo Contact/Contactless Card
- ☐ 1597 Smart ISOProx II Card
- ☐ 1598 Smart DuoProx II Card
- ☐ 211 - iCLASS Embeddable Card
- ☐ 213 - iCLASS Prox embeddable Card
- ☐ 1436/1446 - MIFARE
- ☐ 1437/1447 - HID Prox and MIFARE
- ☐ 1456 - MIFARE DESFire
- ☐ 1457 - MIFARE DESFire and Prox

Artwork Placement, Font Styles and Colors:

- ☐ Artwork Placement on Front Side of card
- ☐ Artwork Placement on Back Side of card
- ☐ Font Style(s): _____
- ☐ Front Side Colors: _____
- ☐ Back Side Colors: _____

Do you plan to print over or around the custom artwork with a dye sublimation printer? ☐ Yes ☐ No

Surface ☐ or Laminated ☐ Lithographic Printing (Refer to the Anti-Counterfeiting Descriptions page in this guide for details)

Card Options:

Slot Punch [2, 5]:	☐ Yes	☐ No	☐ Horizontal	☐ Vertical
Signature Panel:	☐ Yes	☐ No	Size: _____.	
Front Card Finish:	☒ Gloss			
Back Card Finish:	☒ Gloss			
Magnetic Stripe Coercivity:	☐ High (ISO7811-6)	☐ Low (ISO 7811-2)		
Magnetic Stripe Type:	☐ Standard 3 Track	☐ Debitek 1/8 inch	☐ Other: _____.	

Anti-Counterfeiting Options:

Invisible Ink:	☐ Red	☐ Yellow	☐ Blue	☐ Green	☐ Glow in the Dark
Micro-fine Print:	☐ Yes	☐ No			
Hologram [7]:	☐ Surface	☐ Embedded			

Notes:

[1] Standard Composite Card is 25% Polyester and 75% PVC. A .035 inch thick card with 35% Polyester is also available. Contact Customer Service for details.

[2] Some cards will have printed indicators on the back of the card to show the vertical slot punch location.

[3] Some cards will have a small HID logo and reference number, custom artwork file number, and external number (optional) printed on the card.

[4] Do not order slot punched cards for use in dye sublimation printers. Slot edge may damage the printer ribbon. Slot should be punched after dye sublimation printing.

[5] Some video imaging printers cannot accommodate pre-slot punched cards. Consult with the printer manufacturer prior to ordering.

[6] Surface Holograms cannot be placed over internal electronics.

[7] Representation, Warranty and Indemnity. Customer represents and warrants to HID that it owns, controls, or otherwise has the full and unrestricted right to use the custom artwork provided to HID for use in connection with this Custom Artwork Checklist Form (the Custom Artwork) and to authorize and license HID to use and apply the Custom Artwork to the cards in the manner provided in this Custom Artwork Checklist Form. Customer agrees to indemnify HID and hold it harmless from and against any claims, liabilities, losses and/or expenses (including reasonable attorney fees and costs of suit) arising out of the use by HID of the Custom Artwork in the manner provided by this Custom Artwork Checklist Form or by any custom artwork proofs approved by the Customer.

[8] HID does not recommend placing custom graphics on either side of the Contact Smart Chip area.

Name: _____ Signature: _____ Date: _____

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Electronic Artwork Checklist

File Submission and Preparation

This document gives digital artwork specifications from our press department. Use these guidelines and your project should go smoothly through the pre-press department.

☐ MEDIA

Submit files through email or on CD. Compressed files should be self-extracting. Submitted media will not be returned to the customer. An FTP address is available upon request for submitting media.

☐ PLATFORM: MS WINDOWS/Macintosh

Projects that are set up in any of the major applications (listed below under Graphic Applications) generally translate to Macintosh smoothly. Save your final file with pictures embedded, outlined fonts and EPS Vector editable file.

☐ FONTS

Use Type 1 fonts and include screen and printer fonts on disk. Type may be converted to paths or outlines, but we cannot make copy changes to text submitted in this form. In addition, converted type loses the benefits of PostScript font definitions; hence, type quality may suffer. This is more noticeable in small type (-18 point).

☐ PLACED GRAPHICS

All placed graphics, saved as TIFF or EPS, and should be included in their native program. If an Adobe Photoshop® image is placed in a QuarkXPress® document, we need the Photoshop image to produce the job. Sizing, cropping, rotation, etc. should all be done to the element in its native program and placed in Quark. Color images should be converted from RGB to CMYK. Special colors should be designated using PMS or provide color sample to be matched. Resolution of color images, BandW halftones, or duotones should be 300 Dots Per Inch (dpi).

☐ GRAPHIC APPLICATIONS (latest version)

Adobe Photoshop - Adobe Illustrator® - QuarkXPress

☐ BITMAPS AND TRACING

Scanned line art converted to bitmaps should have a resolution of 1200 - 2400 dpi. Lower resolutions will result in jagged curves. Many programs can convert (trace) bitmaps to vector drawings. Smoothing a traced image can be time consuming, but once completed yields a resolution independent graphic that will provide crisp reproduction for all future uses. We can provide this service for you at our regular file intervention rate. Minimum required dpi is 300.

☐ BLEEDS

Incorporate 0.125 inch of overwork for all bleed images. Any portion of the image that extends to the edge of the product is considered a bleed. Minimum required size with bleed is 2.227 x 3.477 inch for standard card size file.

☐ MARGINS

Elements that do not bleed should be at least 0.125 inch from the edge.

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Anti-Counterfeiting Descriptions

Printing Types

Laminated Lithographic Printing: High resolution (>3600 dpi) offset printing technology yields photographic quality images. Laminated printing places the ink layer under a rigid clear plastic overlay which protects the printed image from abrasion and allows you to re-print over the existing artwork on the card. The cards are compatible with all Photo ID printing methods: dye-sublimation, reverse transfer and resin transfer.

Surface Lithographic Printing: This process is identical to the Laminated Lithographic Printing, but the ink layer is applied to the outer surface of the finished card and may include a clear coat. You may not be able to reprint on the card. The inks and clear coat are not compatible with D2T2 printing (Dye Diffusion Thermal Transfer, AKA dye-sublimation). The surface printing is durable enough for normal handling and use, but may wear more quickly in heavy use or swipe (magnetic stripe) applications. It is not recommended for high use applications, or for printing critical data such as emergency information. This process is often used for quick turnaround of simple text and graphics on card backs.

Surface Hologram

Holograms are one of the most recognizable anti-counterfeiting devices on the market. The optically variable image cannot be duplicated with standard printing. Surface holograms are applied via hot stamping to the exterior of the card surface. This style of application is common to all financial transaction cards.

Embedded Hologram

Embedded holograms are positioned under the rigid clear outer layer of the card surface. Unlike surface holograms, embedded holograms are amenable to dye sublimation – allowing the entire card surface to be personalized. This application style furthers the effectiveness of the anti-counterfeiting feature by requiring expensive specialized equipment during manufacture.

Embedded Advantage™ Security Seal

The Advantage product is a specialized optically variable device that is manufactured in only one plant worldwide. It has been the OVD of choice for many government identity documents, including many states driver licenses and the INS card. Like the embedded hologram, this device is placed under the rigid clear outer layer and is not subject to surface abrasion and wear. Advantage images shift from orange to green at different viewing angles.

Invisible Ultra-Violet (UV) Fluorescing Images

Common on credit card, currency and travel documents, invisible ink images provide a covert anti-counterfeiting mechanism. Though blue/violet fluorescing ink is readily available and inexpensive, red, green, yellow and orange fluorescing pigments remain difficult to acquire. This covert anti-counterfeiting device remains popular because of its relatively easy implementation in the field.

Micro-fine Printing

Very small spot color printing that exploits the limitations of inkjet, toner based (laser) and dye sublimation printers. Counterfeit reproductions can be determined with a handheld magnification tool.

Guilloche Printing

Fine line interlocking spot color patterns that are extremely difficult to scan and reproduce. These design elements are often multicolor and are commonly used on currency and travel documents.

Composite Formulations

Composite formulations are designed for durable applications and for use in dye sublimation printers that employ re-transfer technology and/or polyester laminate patches. Composite cards will minimize the warping caused by such processes. These formulations derive their strength from combining biaxial Oriented Polyester (OPET) with traditional Polyvinyl Chloride (PVC).

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Custom Card Artwork Placement and Inkjet Location Guides

Standard PVC and Composite PVC/Polyester Cards

Company Name:			PO No.		Date	
Quantity:		Card and Artwork File No.				

1. External Number

☐ Standard Location: The standard external # location is shown on the template below. The external # can only be printed on the back of the card. The external # will be printed in the standard location, unless otherwise specified.

☐ Custom Location: Indicate the desired external # location by writing 12345 on the appropriate template. The external # can only be printed on the back of the card.

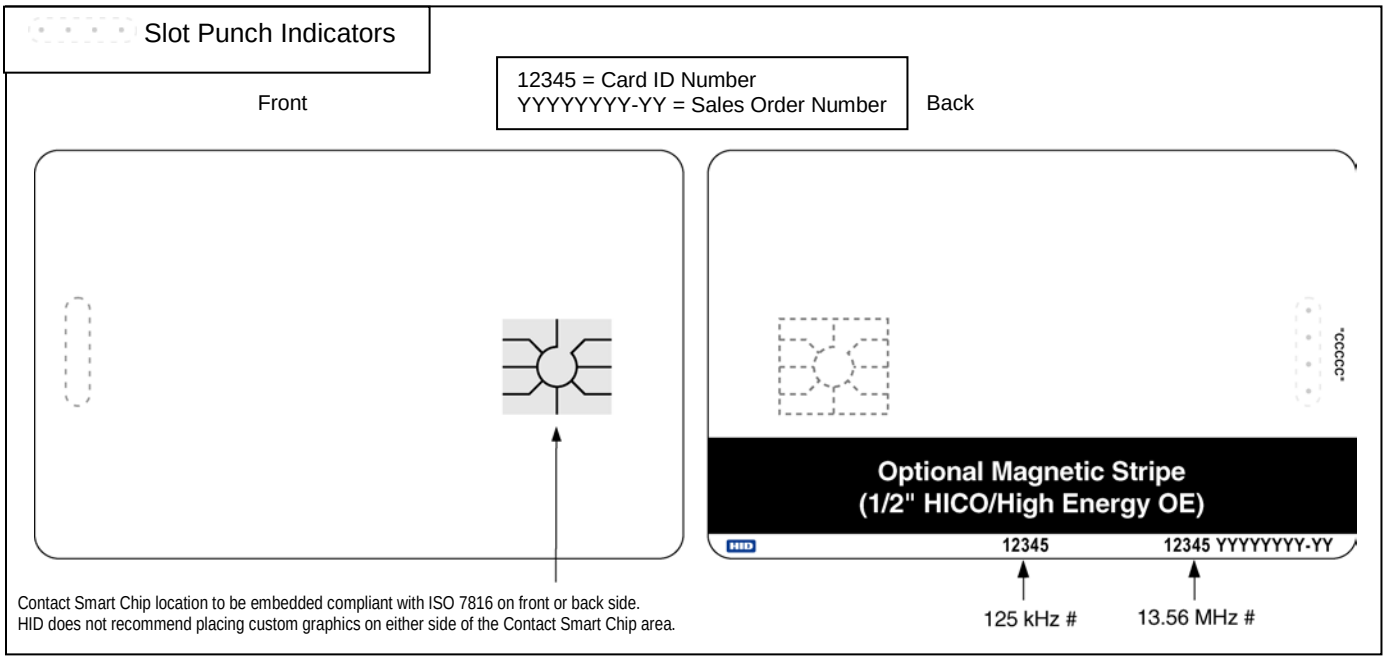
2. An Artwork File Number is placed on each card. The standard location is indicated by the CCCCC. The standard location for the custom artwork number is on the back side of the card. Indicate/incorporate the artwork number on the artwork.
If there will be front side printing only, the custom artwork number will be placed on the printed side, opposite the standard location.

3. Artwork Placement: Indicate the placement of your artwork on the template below. Custom artwork must clear the slot punch locations and edges by a min. of 0.125 inch.

4. Magnetic Stripe (Optional): If the location of the magnetic stripe is custom (other than standard) and/or if other types of magnetic stripes are to be added to the card (i.e. Debitek stripe), indicate the locations of the magnetic stripe(s) on the template.

☐ Standard Location ☐ Custom Location

Card Artwork Templates



Notes:
[1] External # location reads in the direction as shown. External # character height is approximately 0.1 inch.
[2] Cards will have a small HID logo and reference number printed in the lower left-hand corner and a slot punch target printed on the back of the card.
[3] A standard custom artwork file number is printed on the back side of the card. Front side printing of this same number is an option.
[4] Slot punch location indicators will appear on the back side of the card only.
[5] Do not order slot punched cards for use in dye sublimation printers.
Slot edge may damage the printer ribbon. Slot should be punched after dye sublimation printing.
[6] Some video imaging printers cannot accommodate pre-slot punched cards. Consult with the printer manufacturer prior to ordering.

Name: _____ Signature: _____ Date: _____

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Identity and Access Management Evaluation Kit Questionnaire

Thank you for your interest in HID's Crescendo evaluation kit.

To acquire the best evaluation kit, complete the following questionnaire.

Send your completed questionnaire to the following email address: oneidentity@hidglobal.com

Thank you for taking the time to complete this form!

Note: Questions marked * are mandatory.

CONTACT DETAILS

*Your name: _____
*Name of your organization: _____
*Phone number: _____
*Email address: _____

*Evaluation Kit Delivery address:
Address 1: _____
Address 2: _____
Address 3: _____
Town/City: _____
ZIP/Postcode: _____
Country: _____

*Nature of your business / organization

Systems Integrator:	☐	VAR:	☐
Distributor:	☐	Installer:	☐
Reseller:	☐	Consultant:	☐
End-user:	☐	Other - specify:	_____

PROJECT INFORMATION

Do you have an upcoming project in mind?
If so what type of business/organization will the cards be deployed in?

End-user business

Local/central government:	☐	Healthcare:	☐
Defense:	☐	Education:	☐
Police:	☐	Energy:	☐
Utilities:	☐	Manufacturing:	☐
Financial services:	☐	Enterprise:	☐

Other - specify: _____

Potential number of users in first year: _____
Potential number of users over next 5 years: _____
Likely timescales for deployment:

< 6 months	☐	< 12 months	☐
< 2 years	☐	Unknown:	☐

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CARD REQUIREMENTS – CONTACTLESS CHIP

*Physical smart card applications click all that apply:

Door Access:	☐	ePurse/eVending/eTicket:	☐
Time and Attendance:	☐	Secure Print Release:	☐
Mustering:	☐	Car Park Access:	☐
Loyalty/Reward scheme:	☐	Event Management:	☐

Other - specify: _____

*Contactless technologies, click all that apply:

HID Prox:	☐	Indala Prox:	☐
iCLASS:	☐	MIFARE:	☐
LEGIC®:	☐		

Other - specify _____

Do you have any particular contactless chip coding requirements?

_____

Do you have any particular contactless chip programming requirements?

_____

CARD REQUIREMENTS – CONTACT CHIP

*Logical smart card applications, click all that apply:

Secure PC / Network Logon:	☐	Digital Signature:	☐
Secure email:	☐	Secure VPN/SSL:	☐
Secure Web Access:	☐	Secure Single Sign On:	☐
Secure Pre-boot Authentication:	☐	Secure Disk Encryption:	☐

Other - specify: _____

*Contact standards support, click all that apply:

CryptoAPI / MSCAPI:	☐	PKCS#11:	☐
Microsoft BaseCSP / Minidriver:	☐	PKCS#15:	☐
FIPS140-2:	☐	Common Criteria EAL:	☐
FIPS 201 (PIV):	☐	BAC/EAC:	☐
EMV:	☐		

Other - specify: _____

CRESCENDO™

END-USER ENVIRONMENT

Which operating system(s) will the cards be used with? – specify:

Server (example: Windows 2003 Server): _____

Client (example: Windows XP or Vista): _____

Certificate authority – specify: _____
(example Microsoft CA)

* Do you intend to use a Card Management system? If so which one:

Microsoft ILM 2007:	☐	Bell ID CMS:	☐
Intercede MyID:	☐	AET BlueX:	☐
ActivIdentity CMS:	☐	None:	☐

Other - specify: _____

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CARD PERSONALZATION

Are you interested in having your cards graphically personalized by HID?

Yes: ☐ No: ☐

If yes, state any requirements you may have.

READERS

Do you have any requirements for contact/contactless readers?

If so specify.

For more information, go to www.hidglobal.com > Products & Solutions > Readers > OMNIKEY.

PRINTERS

Do you have any requirements for printers?

If so, specify.

For more information, go to www.hidglobal.com > Products & Solutions > Card Printers.

ACCESSORIES

Do you have any requirements for card accessories as card holders, yoyos or lanyards?

If so, specify.

GENERAL

Where did you hear about Crescendo?

Salesperson:	☐	Website:	☐
Conference:	☐	Advert:	☐
Existing customer:	☐		

Other - specify: _____

When may we contact you?

Feel free to include any other relevant information here.

_____

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