



# Logical Access How to Order Guide

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May 2012**

The most current version of this document is always available for download at:  
[http://www.hidglobal.com/documents/LogicalAccess\\_htog\\_en.pdf](http://www.hidglobal.com/documents/LogicalAccess_htog_en.pdf)

To check status on your order, go to:  
[www.hidglobal.com/order](http://www.hidglobal.com/order)  
to register.

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Date	Author	Description	Version
05/07/12	SA	Finalize C1100 options	B.8
04/06/12	SA / TM	Add SE options for C1100, C800 and C200/C700 as well as Embeddable for Dual HF card (MIFARE + DESFire). Removed OMNIKEY Reader Packs.	B.7
03/28/12	TM / SA	Added 5321 PAY, 5127 CK, 4121 USB, 5326 DFR and Crescendo C1100	B.6
12/05/11	TM	Added 3121 USB (w/ Heavy Base), 2061 Bluetooth, 3621 USB PINPAD, Heavy Standing Base 31xx. Modified 3821 USB PINPAD, 3921 (USB), 5321 CR (V2) Added OMNIKEY Customization Program Order Form	B.5
07/22/11	TM	Added new part number for multi-technology Credentials 243, 263 Changes to OMNIKEY Section and added C800 Crescendo Cards	B.3
05/13/11	KB / TM	- C200 and C700 details - Removed MIFARE Plus 2 and 4K Bytes - 402/407 Crescendo / 400 Combo Contact and Contactless Credentials - Added OMNIKEY CL & OMNIKEY 3921	B.2
08/10/10	TM	- Added OMNIKEY Customization Program and minor refinements Corrected naviGO Credential credits part numbers	B.1



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## Overview

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Welcome to HID on the Desktop solutions. 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 the HID on the Desktop solution include iCLASS<sup>®</sup>, iCLASS SE<sup>®</sup>, Crescendo<sup>®</sup>, OMNIKEY<sup>®</sup> and naviGO<sup>®</sup>.

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

Visit [www.hidglobal.com](http://www.hidglobal.com) product section for more information.

### Prox on the Desktop

Prox on the Desktop provides strong authentication for use with HID Prox, the industry-standard in physical access control. Customers purchasing Prox on the Desktop will need the following components:

- HID Prox cards
- OMNIKEY<sup>®</sup> Prox reader
- naviGO<sup>®</sup> software
- Credential Credits

### iCLASS on the Desktop

iCLASS on the Desktop extends the reach of HID iCLASS<sup>®</sup> access technology to computer systems. From a security standpoint, iCLASS on the Desktop moves up the strong authentication continuum to provide a higher level of authentication than password-only log-in. The iCLASS on the Desktop solution takes advantage of the iCLASS card's mutual authentication capability and encodes a certificate-like data structure in a securely protected memory sector of the card.

The iCLASS on the Desktop solution does not require organizations to re-badge, issue a new token or make any changes to their physical access control system.

To implement iCLASS on the Desktop, customers need the following components:

- HID iCLASS/iCLASS SR credentials
- OMNIKEY<sup>®</sup> reader
- naviGO<sup>®</sup> software
- Credential Credits

### Crescendo on the Desktop

Crescendo<sup>®</sup> is a series of highly secure multi-technology, off-the-shelf smart cards designed to provide out-of-the-box, standards-compliant support for converged access (physical and logical access applications). Representing the highest level of network security among HID on the Desktop solutions, Crescendo contact smart cards are designed to be used with certificates in a PKI (Public Key Infrastructure) environment.

- OMNIKEY<sup>®</sup> reader
- naviGO<sup>®</sup> software
- Credential Credits



## 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 C200, C700, C800 and C1100 are optimized, tested and supported by the OMNIKEY Reader product line.

#### Crescendo C200:

Includes a Smart Card mini-driver for use with Microsoft CryptoAPI compliant applications.

Available with HID iCLASS, NXP MIFARE Classic, NXP MIFARE DESFire and Prox (HID or Indala) as multi-technology cards.

#### Crescendo C700:

Includes middleware for use with PKCS#11 and Microsoft CryptoAPI compliant applications.

Available with HID iCLASS, NXP MIFARE Classic, NXP MIFARE DESFire and Prox (HID or Indala) as multi-technology cards.

#### Crescendo C800:

Smart Card solution for the HID/ActivIdentity ActivID CMS Appliance.

Available with HID iCLASS, NXP MIFARE Classic, NXP MIFARE DESFire and Prox (HID or Indala) as multi-technology cards.

#### Crescendo C1100:

Smart Card solution for the HID/ActivIdentity ActivID CMS (Software Version).

Available with HID iCLASS, NXP MIFARE Classic, NXP MIFARE DESFire and Prox (HID or Indala) as multi-technology cards.

### iCLASS and iCLASS SR

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.

#### 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.

## 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.

## Software

### naviGO

naviGO<sup>®</sup> by HID Global is a cost-effective solution that simplifies deployment and manages the lifecycle of strong authentication user credentials including Crescendo<sup>®</sup> smart cards (with digital certificates), iCLASS<sup>®</sup>/iCLASS SR<sup>®</sup> smart cards, Prox cards and Knowledge Based Authentication (KBA). naviGO makes strong authentication simple.

The naviGO software includes two components: Workstation and Server. These components work independently, but can work together to provide even greater versatility.

### Workstation

#### naviGO Workstation (Client Software)

- User Name/Password Authentication; PIN Authentication; Knowledge-Based Authentication
- Self-service setup, authentication and lifecycle activities
- Local administration
- Local policies
- Multiple credentials per workstation software
- For trial mode, includes one (1) credential credit

### Server

#### naviGO Server (Server Software)

- User Name/Password Authentication; PIN Authentication; Knowledge-Based Authentication
- Self-service setup, authentication and lifecycle activities via web-based portal for users
- Centralized administration via web-based portal for administrators
- Server policies
- Multiple credentials per server software

### Mixed Environment

#### naviGO Workstation and naviGO Server (Client and Server Software)

- User Name/Password Authentication; PIN Authentication; Knowledge-Based Authentication
- Self-service setup, authentication and lifecycle activities
- Centralized administration
- Server policies
- Multiple credentials per server software

## Credential Credits

HID's naviGO software creates and manages Windows log-on credentials as part of the HID on the Desktop solutions. In order for naviGO to create the credential and link it to a specific card, the system uses a Credential Credit. In essence, Credential Credits are the currency used by naviGO to pay for the log-on credential that is being requested by the user. Order a Credential Credit for each HID card you wish to enable for logical access.

The Credential Credit Key activates the purchased credentials within the system allowing users to apply a logical access credential to their HID card.

Credential credits are available for naviGO Server and Workstation. Credits are not exchangeable. For example, you cannot use credential credits purchased for naviGO Workstation on the Server version.

## Trial Packages

HID provides no cost Trial Software to allow users the opportunity to fully test HID on the Desktop within their own environment.

The naviGO Trial Software package includes both naviGO Server and Workstation components. No keys are required for installing and using the trial version. naviGO Server includes ten (10) credential credits in trial mode and naviGO Workstation includes one (1) credential credit.

The naviGO Trial Software is active for 90-days.

By purchasing a naviGO credential credit the trial version automatically transforms into a live version.

See the naviGO Ordering Guide section, page 24 for details on ordering and downloading the naviGO Trial Software package.

Clients require cards and readers to implement the complete solution if they do not already have those portions of the solution. HID offers various trial packages of cards and readers at nominal prices.



## 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*)

### Credential Information

**Base Part Number** - Indicates type of credential

- Standard PVC
- Composite 40% Polyester/PVC (Recommended for long life applications or when applying an over-laminate)

**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** – DESFire (Specify Programming)
- M** – MIFARE (Specify Programming)
  - MIFARE Capacity Size**
    - MIFARE 1 K Bytes or 4 K Bytes
  - DESFire EV1 Capacity Size**
    - 8 K Bytes

#### Contact Chip and Embeddable Technology

- Crescendo
  - Crescendo C200 - For use with Microsoft Smart Card CSP and Smart Card KSP
  - Crescendo C700 - For use in PKCS #11 and Microsoft CryptoAPI (CSP) environments
  - Crescendo C800 - For use with HID ActivID Card Management System (CMS) Appliance
  - Crescendo C1100 - For use with HID ActivID Card Management System (CMS): Software version
- 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**

# 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 existing physical access control systems. 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.

### 402 / 407 - Crescendo Ordering Guide for Microsoft CryptoAPI and PKCS#11

Base Model :  402 -- Crescendo C200  407 -- Crescendo C700  
 For use with Microsoft Smart Card CSP and Smart Card KSP! For use in PKCS #11 and Microsoft CryptoAPI (CSP) environments!

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

- 2 – 13.56 MHz iCLASS 32 KB Only
- 4 – 13.56 MHz MIFARE Classic 4KB Only
- 6 – 13.56 MHz DESFire EV1 8KB Only
- A – Combo 13.56 MHz iCLASS 32 KB and 125 kHz Prox (HID, Indala, or Casi)
- C – Combo 13.56 MHz MIFARE 4KB and 125 kHz Prox (HID, Indala, or Casi)
- G – Combo 13.56 MHz DESFire EV1 8KB and 125 kHz Prox (HID, Indala, or Casi)
- F – Combo 13.56 MHz iCLASS 32KB and MIFARE 4KB
- H – Combo 13.56 MHz iCLASS 32KB and DESFire EV1 8KB
- J – Combo 13.56 MHz iCLASS 32KB and DESFire EV1 8KB and 125 kHz Prox (HID, Indala, or Casi)
- T – Combo 13.56 MHz iCLASS 32KB and MIFARE 4KB 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

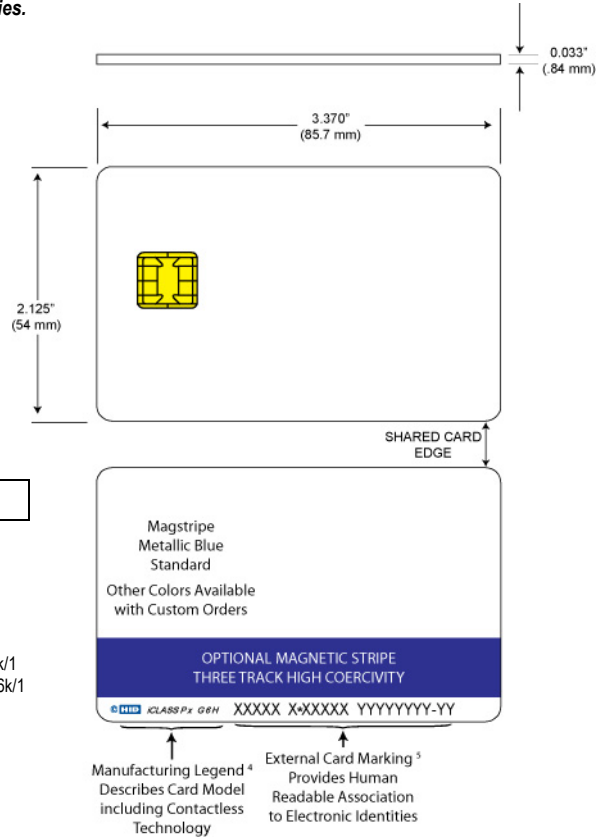
- H – Programmed with Security Identity Object (SIO): Dual Payload Card (Supports SIO as well as Standard data format)
- P – Programmed with Security Identity Object (SIO)

#### Option - Custom Artwork<sup>6</sup>

- \_\_\_\_\_ (Specify Artwork Number – Refer to the Custom Artwork Forms for new artwork)

From the above options, enter your final card options. Examples: 407A and 4022M.

Final Part Number									(Options)
-------------------	--	--	--	--	--	--	--	--	-----------



#### Configuration and Programming (required for order)

##### External Marking Technology (Check One)

- Inkjet  Laser

##### iCLASS Memory Size and Allocation (Check One)

- Not Applicable
- 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<sup>2</sup>
- Programmed (Specify Programming)

###### MIFARE Classic

- Not Applicable
- Non-Programmed<sup>2</sup>
- Programmed HID MIFARE (Specify HID Format, MIFARE only)
- Non-Programmed<sup>2</sup>
- Programmed HID MIFARE (Specify HID Format, MIFARE only)

###### MIFARE DESFire EV1

- Not Applicable
- Non-Programmed<sup>2</sup>
- Custom Programmed, Specify Programming Information<sup>3</sup>

###### 125 kHz Prox

- Not Applicable
- Initialized, Non-Programmed<sup>2</sup>
- Programmed HID Prox
- Programmed Indala/Casi Prox
- Programmed Other Prox

<sup>1</sup> For information about MS CAPI and PKCS #11, visit [www.hidglobal.com/crescendo](http://www.hidglobal.com/crescendo).  
<sup>2</sup> Non-programmed cards require field programming capability. Various solutions are available to securely program credentials.  
<sup>3</sup> Any programming requiring custom keys or non-standard memory locations.  
<sup>4</sup> The Manufacturing Legend is required on all cards.  
<sup>5</sup> External Card Marking is used to trace manufacturing lots and provide readable serialization.  
<sup>6</sup> Contact Customer Service for custom artwork number, lead-times, and cost.  
<sup>7</sup> Though most formats require two fields (site code and card number), use this area for additional values if required by the format.  
<sup>8</sup> Laser marking may extend lead times.

Programming Information									
iCLASS			MIFARE or DESFire				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 <sup>7</sup>			Additional Field Data <sup>7</sup>			Additional Field Data <sup>7</sup>			
Internal Card No. Start			Internal Card No. Start			Internal Card No. Start			
External Card No.	<input type="checkbox"/> None	<input type="checkbox"/> Random	External Card No.	<input type="checkbox"/> None	<input type="checkbox"/> Random	External Card No.	<input type="checkbox"/> None	<input type="checkbox"/> Random	
	<input type="checkbox"/> Matching	<input type="checkbox"/> Non-Matching		<input type="checkbox"/> Matching	<input type="checkbox"/> Non-Matching		<input type="checkbox"/> Matching	<input type="checkbox"/> Non-Matching	
External Start No.	(If not Matching)		External Start No.	(If not Matching)		External Start No.	(If not Matching)		
Optional PIN:	<input type="checkbox"/> Sequential:	Start #		<input type="checkbox"/> Sequential:	Start #				
	<input type="checkbox"/> Random:	Length		<input type="checkbox"/> Random:	Length				
Optional Elite Key:	ICE #					<input type="checkbox"/> HID	<input type="checkbox"/> Indala	<input type="checkbox"/> Casi Compatible	

## 408 - Crescendo Ordering Guide

**Base Model :**  408 -- Crescendo C800 – For HID/ActivIdentity ActivID Card Management System Appliance.

Order minimum quantities of 100.

**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 Classic 4KB Only
- 6 – 13.56 MHz DESFire EV1 8KB Only
- A – Multi-Tech 13.56 MHz iCLASS 32kb 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 DESFire EV1 8KB and Prox - 125 kHz HID

**Option - Magnetic Stripe**

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

**Option – Secure Identity Object Programming**

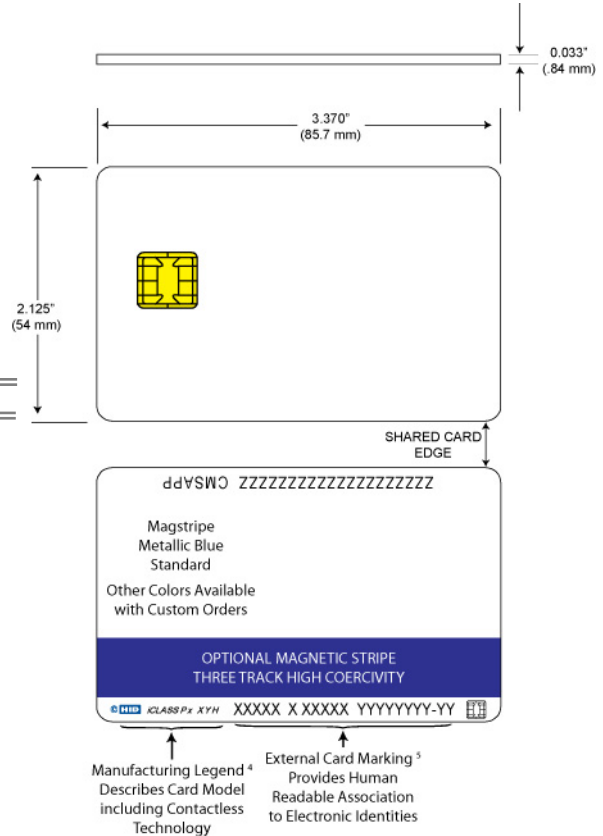
- H – Programmed with Security Identity Object (SIO): Dual Payload card (Support SIO as well as Standard data format)
- P – Programmed with Security Identity Object (SIO)

**Option - Custom Artwork <sup>6</sup>**

- \_\_\_\_\_ (Specify Artwork Number – Refer to the Custom Artwork Forms for new artwork)

From the above options, enter your final card options. Examples: 408A and 4086M.

Final Part Number	408					-		(Options)
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**Configuration and Programming (required for order)**

**External Marking Technology (Check One)**

- Inkjet  Laser <sup>8</sup>

**iCLASS Memory Size and Allocation (Check One)**

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

**Contactless Technology (Check One)**

**iCLASS**

- Configured, Non-Programmed <sup>2</sup>
- Programmed (Specify Programming)

**MIFARE Classic or DESFire EV1 Only**

- Programmed HID MIFARE (Specify HID Format, MIFARE only)
- Non-Programmed <sup>2</sup>
- Custom Programmed, Specify Programming Information<sup>3</sup>

**Combo iCLASS and Prox**

- Configured, Non-Programmed <sup>2</sup>, iCLASS and Non-Programmed <sup>2</sup> 125 kHz Prox.
- Configured, Non-Programmed <sup>2</sup>, iCLASS, Programmed 125 kHz Prox. (Specify Programming)
- Programmed iCLASS and Non-Programmed <sup>2</sup> 125 kHz Prox. (Specify Programming)
- Programmed iCLASS and Programmed 125 kHz Prox. (Specify Programming)

**Combo MIFARE and Prox or DESFire and Prox**

- Non-Programmed MIFARE or DESFire <sup>2</sup> and Non-Programmed <sup>2</sup> 125 kHz Prox.
- Non-Programmed MIFARE or DESFire <sup>2</sup> and Programmed 125 kHz Prox (Specify Programming)
- Programmed HID MIFARE and Non-Programmed <sup>2</sup> 125kHz Prox (Specify Programming)
- Programmed HID MIFARE and Programmed 125kHz Prox (Specify Programming)
- Custom Programmed MIFARE or DESFire and Non-Programmed<sup>2</sup> 125 kHz Prox (Specify Programming)
- Custom Programmed MIFARE or DESFire and Programmed 125kHz Prox (Specify Programming)

<sup>1</sup> For information about HID ActivID CMS appliance, visit [www.hidglobal.com/crescendo](http://www.hidglobal.com/crescendo) and [www.actividentity.com](http://www.actividentity.com).  
<sup>2</sup> Non-programmed cards require field programming capability. Various solutions are available to securely program credentials.  
<sup>3</sup> Any programming requiring custom keys or non-standard memory locations.  
<sup>4</sup> The Manufacturing Legend is required on all cards.  
<sup>5</sup> External Card Marking is used to trace manufacturing lots and provide readable serialization.  
<sup>6</sup> Contact Customer Service for custom artwork number, lead-times, and cost.  
<sup>7</sup> Though most formats require two fields (site code and card number), use this area for additional values if required by the format.  
<sup>8</sup> Laser marking may extend lead times.

Programming Information									
iCLASS			MIFARE or DESFire				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 <sup>7</sup>			Additional Field Data <sup>7</sup>			Additional Field Data <sup>7</sup>			
Internal Card No. Start			Internal Card No. Start			Internal Card No. Start			
External Card No.	<input type="checkbox"/> None	<input type="checkbox"/> Random	External Card No.	<input type="checkbox"/> None	<input type="checkbox"/> Random	External Card No.	<input type="checkbox"/> None	<input type="checkbox"/> Random	
	<input type="checkbox"/> Matching	<input type="checkbox"/> Non-Matching		<input type="checkbox"/> Matching	<input type="checkbox"/> Non-Matching		<input type="checkbox"/> Matching	<input type="checkbox"/> Non-Matching	
External Start No.	(If not Matching)		External Start No.	(If not Matching)		External Start No.	(If not Matching)		
Optional PIN:	<input type="checkbox"/> Sequential:	Start #		<input type="checkbox"/> Sequential:	Start #		<input type="checkbox"/> HID Proximity		
	<input type="checkbox"/> Random:	Length		<input type="checkbox"/> Random:	Length				
Optional Elite Key:	ICE #								

## 401100 - Crescendo Ordering Guide

**Base Model :**  401100 -- Crescendo C1100 – HID/ActivIdentity ActivID CMS Software

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

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

- |                                                                                                        |                                                                                               |
|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <input type="checkbox"/> 0 – None - Contact only card (No physical access)                             | <input type="checkbox"/> G – Multi-Tech 13.56 MHz DESFire EV1 8KB and Prox - 125 kHz HID      |
| <input type="checkbox"/> 2 – 13.56 MHz iCLASS 32kb Only                                                | <input type="checkbox"/> H – Multi-Tech 13.56 MHz iCLASS 32kb + DESFire EV1 8KB               |
| <input type="checkbox"/> 4 – 13.56 MHz MIFARE 4KB Only                                                 | <input type="checkbox"/> J – Multi-Tech 13.56 MHz iCLASS 32kb + DESFire EV1 8KB - 125 kHz HID |
| <input type="checkbox"/> 6 – 13.56 MHz DESFire EV1 8KB Only                                            | <input type="checkbox"/> T – Multi-Tech 13.56 MHz iCLASS 32kb + MIFARE 4KB - 125 kHz HID      |
| <input type="checkbox"/> A – Multi-Tech 13.56 MHz iCLASS 32 kb and 125 kHz Prox (HID, Indala, or Casi) | <input type="checkbox"/> U – Multi-Tech 13.56 MHz MIFARE 4KB + DESFire EV1 8K                 |
| <input type="checkbox"/> C – Multi-Tech 13.56 MHz MIFARE 4KB and 125 kHz Prox (HID, Indala, or Casi)   |                                                                                               |
| <input type="checkbox"/> F – Multi-Tech 13.56 MHz iCLASS 32kb + MIFARE 4KB                             |                                                                                               |

**Option - Magnetic Stripe**

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

**Option – Secure Identity Object Programming**

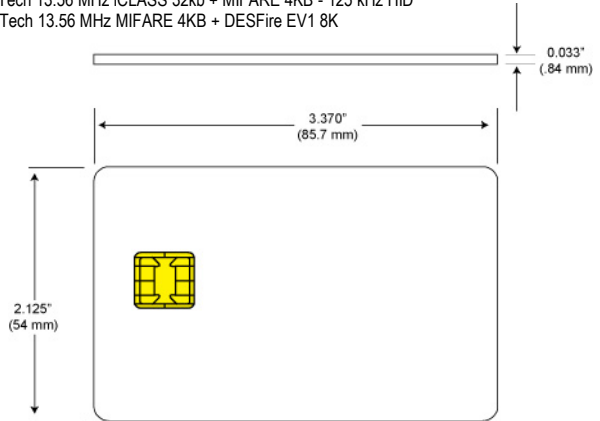
- H - Programmed with Security Identity Object (SIO): Dual Payload card  
(Support SIO as well as Standard data format)
- P - Programmed with Security Identity Object (SIO)

**Option - Custom Artwork <sup>6</sup>**

- \_\_\_\_\_ (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 DESFire EV1 8KB).

Final Part Number	401100					-		(Options)
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**Configuration and Programming (required for order)**

**External Marking Technology (Check One)**

- Inkjet  Laser <sup>8</sup>

**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 <sup>2</sup>
- Programmed (Specify Programming)

**MIFARE Classic or DESFire EV1 Programming**

- Programmed HID MIFARE (Specify HID Format, MIFARE only)
- Non-Programmed <sup>2</sup>
- Custom Programmed, Specify Programming Information<sup>3</sup>

**Prox Programming**

- Non-Programmed <sup>2</sup> 125 kHz Prox.
- Programmed 125 kHz Prox. (Specify Programming)

<sup>1</sup> For information about HID ActivID CMS, visit [www.hidglobal.com/crescendo\\_and\\_actividentity.com](http://www.hidglobal.com/crescendo_and_actividentity.com).

<sup>2</sup> Non-programmed cards require field programming capability. Various solutions are available to securely program credentials.

<sup>3</sup> Any programming requiring custom keys or non-standard memory locations.

<sup>4</sup> The Manufacturing Legend is required on all cards.

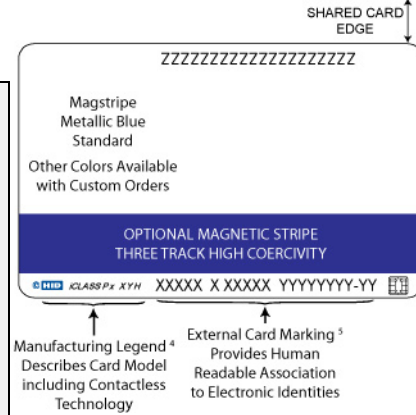
<sup>5</sup> External Card Marking is used to trace manufacturing lots and provide readable serialization.

<sup>6</sup> Contact Customer Service for custom artwork number, lead-times, and cost.

<sup>7</sup> Though most formats require two fields (site code and card number), use this area for additional values if required by the format.

<sup>8</sup> Laser marking may extend lead times.

<sup>9</sup> All Crescendo cards come with a blue magnetic stripe.



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 <sup>2</sup>			Additional Field Data <sup>2</sup>			Additional Field Data <sup>2</sup>			
Internal Card No. Start			Internal Card No. Start			Internal Card No. Start			
External Card No.	<input type="checkbox"/> None	<input type="checkbox"/> Random	External Card No.	<input type="checkbox"/> None	<input type="checkbox"/> Random	External Card No.	<input type="checkbox"/> None	<input type="checkbox"/> Random	
	<input type="checkbox"/> Matching	<input type="checkbox"/> Non-Matching		<input type="checkbox"/> Matching	<input type="checkbox"/> Non-Matching		<input type="checkbox"/> Matching	<input type="checkbox"/> Non-Matching	
External Start No.	(If not Matching)		External Start No.	(If not Matching)		External Start No.	(If not Matching)		
Optional PIN:	<input type="checkbox"/> Sequential:	Start #	Optional PIN:	<input type="checkbox"/> Sequential:	Start #	<input type="checkbox"/> HID	<input type="checkbox"/> Indala	<input type="checkbox"/> Casi Compatible	
	<input type="checkbox"/> Random:	Length		<input type="checkbox"/> Random:	Length				
Optional Elite Key:	ICE #		Optional Elite Key (SIO only):	ICE #					

DESFire EV1	
Format (i.e. H10301)	
Facility / Site Code	
Additional Field Data <sup>2</sup>	
Internal Card No. Start	
External Card No.	<input type="checkbox"/> None <input type="checkbox"/> Random
	<input type="checkbox"/> Matching <input type="checkbox"/> Non-Matching
External Start No.	(If not Matching)
Optional PIN:	<input type="checkbox"/> Sequential: Start #
	<input type="checkbox"/> Random: Length
Optional Elite Key (SIO only):	ICE #





DESFire EV1		
Format (i.e. H10301)		
Facility / Site Code		
Additional Field Data <sup>2</sup>		
Internal Card No. Start		
External Card No.	<input type="checkbox"/> None	<input type="checkbox"/> Random
	<input type="checkbox"/> Matching	<input type="checkbox"/> Non-Matching
External Start No.	(If not Matching)	
Optional PIN:	<input type="checkbox"/> Sequential:	Start #
	<input type="checkbox"/> Random:	Length
Optional Elite Key (SIO only):	ICE #	



## 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<sup>6</sup>. (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 PVC with Gloss Finish
- C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number<sup>1</sup>

#### Back Packaging (Check One)

- G - Plain White PVC with Gloss Finish<sup>2</sup>
- S - Standard Smart ISOProx II Artwork (shown)<sup>2</sup>
- C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number<sup>1,2</sup>

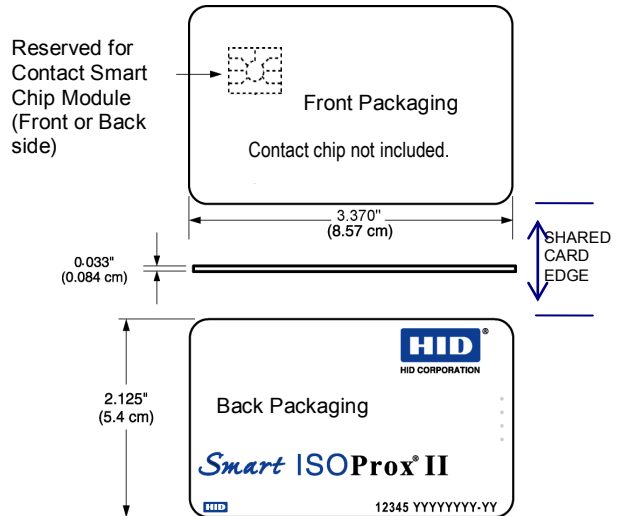
#### Card Numbering<sup>3</sup> (Check One)

- 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 (Engraved)<sup>4</sup>
- B - Sequential Internal/Sequential Non-Matching External (Engraved)<sup>4</sup>
- C - Random Internal/Non-Matching Sequential External (Engraved)<sup>4</sup>

#### Slot Punch<sup>5</sup> (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<sup>1</sup>

- \_\_\_\_\_ (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 #)
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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: \_\_\_\_\_

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

<sup>1</sup> For new artwork files, contact Customer Service for custom artwork number, lead-times and cost.  
<sup>2</sup> 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.  
<sup>3</sup> The external card number is placed in the bottom right-hand corner on the back of the card.  
<sup>4</sup> For Laser Engraved external numbers, consult factory for lead times and cost.  
<sup>5</sup> 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.  
<sup>6</sup> Programmed as a sequential 12 digit number.  
 \* The composite construction is recommended for all cards that will have an over-laminate applied.







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

The iCLASS with MIFARE or 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 & 2<sup>nd</sup> Technology. Specify Programming Information –
- P - Programmed iCLASS only not 2<sup>nd</sup> Technology. Specify Programming Information.
- C - Configured, Non-Programmed iCLASS. Non-programmed 2<sup>nd</sup> Technology. Programming Information Not Required.
- A - Configured, Non-Programmed iCLASS, Programmed 2<sup>nd</sup> Technology. Specify Programming Information.

### 2<sup>nd</sup> High Frequency Technology (Check One)

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

### Front Packaging (Check One)

- G - Plain White with Gloss Finish
- C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number<sup>1</sup>

### Back Packaging (Check One)

- G - Plain White with Gloss Finish<sup>2</sup>
- C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number<sup>1</sup>
- 1 - Plain White with Gloss Finish with Magnetic Stripe<sup>2</sup>
- 3 - Custom Artwork with Gloss Finish with Magnetic Stripe - Specify Custom Artwork Number<sup>1</sup>

### iCLASS Card Numbering<sup>3</sup> (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)<sup>4</sup>
- B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)<sup>4</sup>
- C - Random Internal/Non-Matching Sequential External (Laser Engraved)<sup>4</sup>

### 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

### 2<sup>nd</sup> High Frequency Technology Card Numbering<sup>3</sup> (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)<sup>4</sup>
- B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)<sup>4</sup>
- C - Random Internal/Non-Matching Sequential External (Laser Engraved)<sup>4</sup>

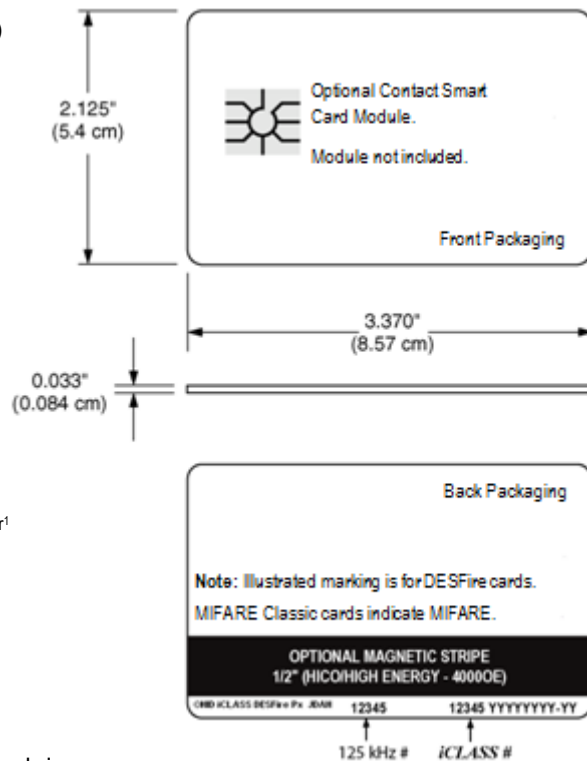
For a list of embeddable modules, contact your Regional Sales Representative.

### Option - Custom Artwork<sup>1</sup>

\_\_\_\_\_ (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 #)
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### 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 \_\_\_\_\_

### 2<sup>nd</sup> 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: \_\_\_\_\_

<sup>1</sup> For new artwork files, contact Customer Service for custom artwork number, lead-times, and cost.

<sup>2</sup> 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.

<sup>3</sup> 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.

<sup>4</sup> For Laser Engraved external numbers, consult factory for lead times and cost.

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





**iCLASS 13.56 MHz Programming Information**


**2<sup>nd</sup> 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 \_\_\_\_\_

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: \_\_\_\_\_

<sup>1</sup> For new artwork files, contact Customer Service for custom artwork number, lead-times, and cost.  
<sup>2</sup> 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.  
<sup>3</sup> 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.  
<sup>4</sup> For Laser Engraved external numbers, consult factory for lead times and cost.  
 \* The composite construction is recommended for all cards with over-laminate applied. Consult with the printer manufacturer prior to ordering.



## 273 – Combination Dual HF (MIFARE + DESFire) Embeddable Ordering Guide

The 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**  273 Composite 40% Polyester / PVC \*

### MIFARE High Frequency Technology

N – MIFARE 4K Bytes

### Card Programming (Check One)

- B - Programmed MIFARE and DESFire Technologies. Specify Programming Information
- P - MIFARE Programmed only not DESFire Technology. Specify Programming Information
- N - Non-Programmed MIFARE and DESFire
- A - Non-Programmed MIFARE, Programmed DESFire Technology. Specify Programming Information.

### DESFire High Frequency Technology

K – DESFire EV1 8K Bytes

### Front Packaging (Check One)

- G - Plain White with Gloss Finish
- C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number<sup>1</sup>

### Back Packaging (Check One)

- G - Plain White with Gloss Finish<sup>2</sup>
- C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number<sup>1</sup>
- 1 - Plain White with Gloss Finish with Magnetic Stripe<sup>2</sup>
- 3 - Custom Artwork with Gloss Finish with Magnetic Stripe - Specify Custom Artwork Number<sup>1</sup>

### MIFARE High Frequency Card Numbering<sup>3</sup> (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)<sup>4</sup>
- B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)<sup>4</sup>
- C - Random Internal/Non-Matching Sequential External (Laser Engraved)<sup>4</sup>

### 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

### DESFire High Frequency Technology Card Numbering<sup>3</sup> (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)<sup>4</sup>
- B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)<sup>4</sup>
- C - Random Internal/Non-Matching Sequential External (Laser Engraved)<sup>4</sup>

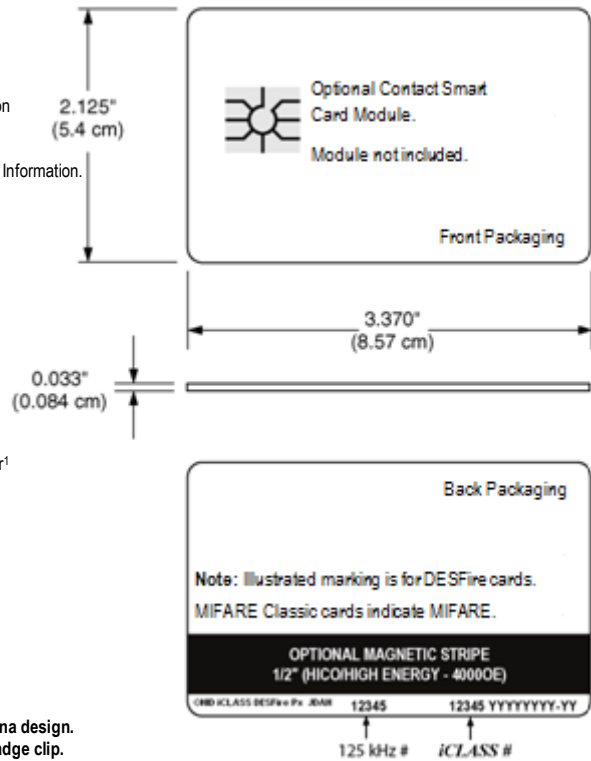
For a list of embeddable modules, contact your Regional Sales Representative.

### Option - Custom Artwork<sup>1</sup>

\_\_\_\_\_ (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 #)
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### 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: \_\_\_\_\_

### 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: \_\_\_\_\_

<sup>1</sup> For new artwork files, contact Customer Service for custom artwork number, lead-times, and cost. <sup>2</sup> 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. <sup>3</sup> 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 DESFire. <sup>4</sup> For Laser Engraved external numbers, consult factory for lead times and cost. <sup>5</sup> Cards are provided with an optional slot punch at no additional charge. Some video imaging printers cannot accommodate pre-slot punched cards.

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





### 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)<sup>6</sup>. Specify Programming Information.
- M - Programmed, (13.56 MHz only with HID Format)<sup>6</sup>. Specify Programming Information.
- B - Programmed, (125kHz and 13.56 MHz with HID Format)<sup>6</sup>. Specify Programming Information.
- N - Non-Programmed (125 kHz and 13.56 MHz without HID Format)<sup>6</sup>. Programming Information Not Required.
- S - Custom Programmed, (13.56 MHz only)<sup>6</sup>, Prox configured Specify Programming Information.
- R - Custom Programmed, (125kHz and Custom 13.56 MHz with HID Format)<sup>6</sup>, Specify Programming Information.

#### Front Packaging (Check One)

If desiring Custom Printing, specify Custom Artwork Number below.<sup>1</sup>

- E - Contact Module Embeddable Plain Gloss White Finish

#### Back Packaging (Check One)

- G - Plain White with Gloss Finish<sup>2</sup>
- S - Standard HID Prox and MIFARE Artwork<sup>2</sup>
- 1 - Plain White with Gloss Finish with Magnetic Stripe<sup>2</sup>
- 2 - Standard HID MIFARE Artwork with Magnetic Stripe
- 3 - Custom Artwork with Gloss Finish with Magnetic Stripe - Specify Custom Artwork Number<sup>1,2</sup>
- C - Custom Artwork with Gloss Finish - Specify Custom Artwork Number<sup>1,2</sup>

#### 125 kHz Prox Card Numbering<sup>3</sup> (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 (Engraved)<sup>4</sup>
- B - Sequential Internal/Sequential Non-Matching External (Engraved)<sup>4</sup>
- C - Random Internal/Non-Matching Sequential External (Engraved)<sup>4</sup>

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

#### Slot Punch<sup>5</sup> (Check One)

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

#### 13.56 MIFARE Card Numbering<sup>3</sup> (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 (Engraved)<sup>4</sup>
- B - Sequential Internal/Sequential Non-Matching External (Engraved)<sup>4</sup>
- C - Random Internal/Non-Matching Sequential External (Engraved)<sup>4</sup>

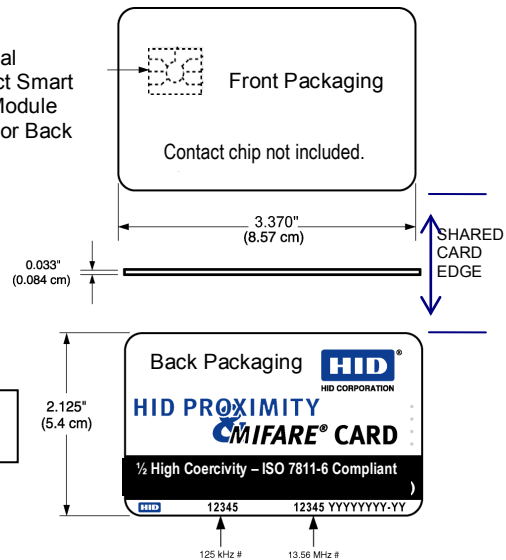
For a list of embeddable modules, contact your Regional Sales Representative.

#### Option - Custom Artwork<sup>1</sup>

- \_\_\_\_\_ (Specify Artwork Number – Refer to the Custom Artwork Forms for new Artwork)

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

<b>Final Part Number</b>			E					-	<b>(Options #)</b>
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#### 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 \_\_\_\_\_

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.

<sup>1</sup> For new artwork files, contact Customer Service for custom artwork number, lead-times, and cost.

<sup>2</sup> 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.

<sup>3</sup> The external card number is placed in the bottom left-hand corner (125kHz) 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.

<sup>4</sup> For Laser Engraved external numbers, consult factory for lead times and cost.

<sup>5</sup> 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.

<sup>6</sup> Includes a permanent Unique MIFARE 32 Bit Serial number.

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



### 1456 – DESFire® Embeddable Card Ordering Form Guide

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

**Base Model**  1456 (4K)Composite 40% Polyester / PVC \*

**Programming (Check One)**

- N - Non-Programmed (13.56 MHz)<sup>6</sup>. Programming Information Not Required.
- S - Custom Programmed , (13.56 MHz only)<sup>6</sup>, Specify Programming Information.

**Front Packaging (Check One)**

If desiring Custom Printing, specify Custom Artwork Number below.<sup>1</sup>

- E - Contact Module Embeddable Plain Gloss White Finish

**Back Packaging (Check One)**

- G - Plain White with Gloss Finish<sup>2</sup>
- 1 - Plain White with Gloss Finish with Magnetic Stripe<sup>2</sup>
- C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number<sup>1,2</sup>
- 3 - Custom Artwork with Gloss Finish with Magnetic Stripe - Specify Custom Artwork Number<sup>1,2</sup>

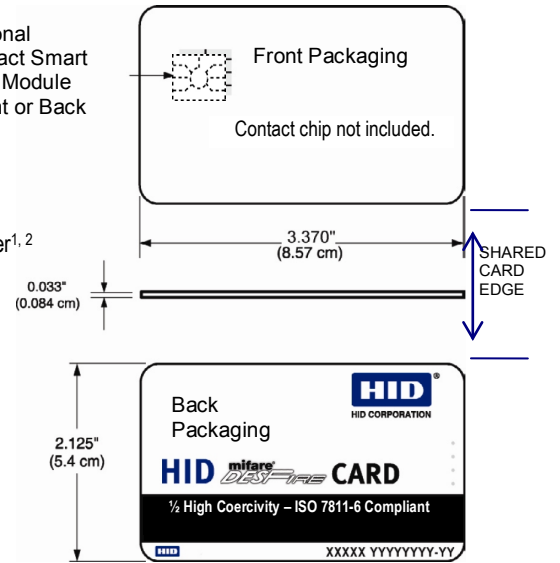
**Card Numbering<sup>3</sup> (Check One)**

- 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)<sup>4</sup>
- B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)<sup>4</sup>
- C - Random Internal/Non-Matching Sequential External (Laser Engraved)<sup>4</sup>

**Slot Punch<sup>5</sup> (Check One)**

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

Optional Contact Smart Chip Module (Front or Back side)



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

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

**Option - Custom Artwork<sup>1</sup>**

- \_\_\_\_\_ (Specify Artwork Number – Refer to the Custom Artwork Forms for new Artwork)

Enter your final card options from check boxes above. Example: 1450NGGNN

<b>Final Part Number</b>	1456		E				-	<b>(Options #)</b>
--------------------------	------	--	---	--	--	--	---	--------------------

**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.

<sup>1</sup> For new artwork files, contact Customer Service for custom artwork number, lead-times, and cost.  
<sup>2</sup> 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.  
<sup>3</sup> 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.  
<sup>4</sup> For Laser Engraved external numbers, consult factory for lead times and cost.  
<sup>5</sup> 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.  
<sup>6</sup> Includes a permanent Unique MIFARE 56 Bit Serial number.



## Logical Access Software

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### naviGO Ordering Guide

HID's naviGO software is provided free of charge in combination with the purchase of Credential Credits. The software is also available as Trial for download and ordering. All available part numbers are described in more detail in the following How to Order Guide sections.

HID's logical access software, naviGO, differentiates two Credential Credit types. Depending on the logical access implementation desired, acquire either naviGO Server (required for most installs) or naviGO Workstation Credential Credits.

naviGO Server Credential Credits are required for **naviGO Client-Server** installs

Supports roaming user environments, server defined user policies, Self-Service website and many more options.

naviGO Workstation Credential Credits are required for **naviGO Workstation (stand-alone) install**

Support multiple users on a single machine, self-enrollment and no roaming user support.

Visit the [HID Global Website](http://www.hidglobal.com) for a functional overview and features of the various naviGO installation options.

#### naviGO Trial Kit

Web Download (free of charge)

Request a naviGO Trial download online through the following form:

<http://www.hidglobal.com/cardServices/naviGoTrialDownloadForm.php>

**Web download is suggested and the preferred delivery method for naviGO Trial Software. Download requests are usually processed within one business day.**

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#### 86490 naviGO Trial (free of charge, shipping costs apply)

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- Order this Trial to receive the software on CD-ROM
- Contains naviGO Trial software for Server and Workstation
- Printed Quick-Start Guide
- Does not require any key
- Trial period is 90-days after first install

#### naviGO Launch Kit

The naviGO Launch kit contains the naviGO trial software in an attractive blister package. In addition to the software CD-ROM, the Launch Kit includes two test cards and an OMNIKEY Smart Card Reader.

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#### 86157 naviGO Launch Kit

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- Order a Launch Kit if you need cards and reader for a trial install
- Contains naviGO Trial software for Server and Workstation on CD-ROM and printed Quick-Start Guide
- Does not require any key
- Trial period is 90-days after first install
- Contains two (2) iCLASS / Prox Combo Cards (for iCLASS or Prox on the Desktop)
- Contains one (1) OMNIKEY 5321 CLi USB connected Smart Card reader (for use with iCLASS cards only)

## Credential Credits

### HID on the Desktop Credential Credits

HID's naviGO software creates and manages Windows log-on credentials as part of the HID on the Desktop solutions. For naviGO to create the credential and link to a specific card, the system uses a Credential Credit. In essence, Credential Credits are the currency used by naviGO to pay for the log-on credential that is requested by the user.

#### Order a Credential Credit for each HID card enabled for logical access.

There are four possible part numbers for credential credits:

- naviGO Workstation Starter Kit – contains naviGO CD-ROM and one key for five (5) credential credits for Workstation
- naviGO Server Starter Kit – contains naviGO CD-ROM and one key for ten (10) credential credits for Server
- naviGO Credential Credit Workstation – contains key card with ordered Workstation credential credits key
- naviGO Credential Credit Server – contains key card with ordered Server credential credits key

Use purchased credential credits for all naviGO 1.0 (SP2 and later) and naviGO 2.0 versions.

#### naviGO Starter Kits

<b>86486</b>	<b>naviGO Server Starter Kit ( includes 10 Credential Credits and CD-ROM)</b>
<b>86487</b>	<b>naviGO Workstation Starter Kit (includes 5 Credential Credits and CD-ROM)</b>

These naviGO Starter Kit options are meant for users who desire the following components.

- Credential Credits, CD-ROM software and printed Quick Start Guide
- You currently have a naviGO Trial Version installed and wish to transition to a permanent installation. In addition, you desire the naviGO installation CD-ROM. (If a CD-ROM is not required, use part numbers 86486 and 86487 as described below.)
- You wish to try naviGO with live keys without the 90 day trial limitation
- You want to stock naviGO for further distribution

#### naviGO Credential Credits

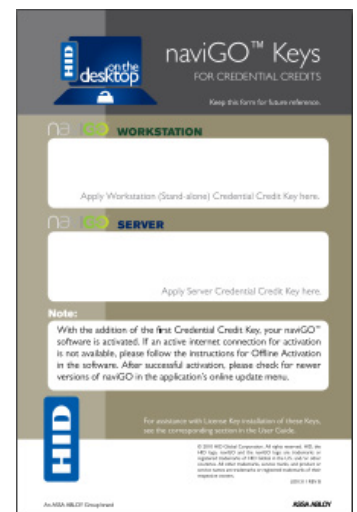
<b>86488</b>	<b>naviGO Server Credential Credits (MOQ 10)</b>
<b>86489</b>	<b>naviGO Workstation Credential Credits (MOQ 1)</b>

These naviGO Starter Kit options are meant for users who desire the following components.

- Credential credits for either Workstation or Server included. Minimum Order Quantities (MOQ) apply
- Software CD-ROM not included
- These credential credits are designed for if you have a Trial Version of naviGO already installed and wish to transition to a permanent installation not needing the naviGO installation CD-ROM
- One key card (see image) contains only one (1) key (either for Workstation or Server)
- Add credential credits to an existing installation (Workstation or Server)
- Order more Credential Credits for Workstation (>5) / Server (>10) than shipped with the starter kits
- **Order a large number of Credential Credits (Workstation or Server) split into multiple keys**

**Note:** Credits are not exchangeable. For example, you cannot use credential credits purchased for naviGO Workstation on the Server version.

Reference [www.hidglobal.com](http://www.hidglobal.com) for detailed information on naviGO features and benefits as well as a survey of typical Logical Access Control Reference Implementations.





## Card Packages

### iCLASS / Prox Combo Cards (for iCLASS or Prox on the Desktop) 2124BG3MNN-10PAK iCLASS 32K (16K/16 + 16K/1) and HID Prox

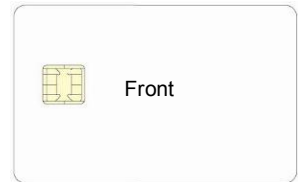
Use *iCLASS / Prox / mag* combination cards to test both *Prox on the Desktop* and *iCLASS on the Desktop* solutions. These cards are pre-programmed with an HID 26 bit format and printed on one-side. The front side is left blank and suitable for dye sublimation imaging, if desired.

### Crescendo (for Crescendo on the Desktop)

<b>402AM-10PAK</b>	Crescendo C200	iCLASS/HID Prox
<b>407AM-10PAK</b>	Crescendo C700	iCLASS/HID Prox
<b>402CM-10PAK</b>	Crescendo C200	MIFARE/HID Prox
<b>407CM-10PAK</b>	Crescendo C700	MIFARE/HID Prox

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.



## Crescendo Evaluation Kit

A Crescendo Evaluation Kit contains a:

- Crescendo smart card stored in the Crescendo Pocket Guide.  
Choose from four different card types.

HID Part Number	
1405080111	Crescendo Evaluation kit C700 iCLASS, Prox, Magstripe
1405080112	Crescendo Evaluation kit C200 iCLASS, Prox, Magstripe

- Crescendo Smart Card Reader  
This is a USB desktop reader optimized for use with the Crescendo smart card. If you have a contact smart card reader currently connected to your PC, you may choose to use that reader.
- Quick Start Guide

The Crescendo card within an Evaluation kit is a working, printed Crescendo card that contains an evaluation certificate issued by HID. The card is encoded with HID standard values in the contactless part for physical access. Evaluate your Crescendo smart card in three ways.

- Using HID's remote desktop server
- Using your own corporate network with Windows® server
- Together with Microsoft® Identity Lifecycle Manager 2007

To learn more, visit our evaluation site at [www.hidcrescendo.com](http://www.hidcrescendo.com).





# Desktop Smartcard Readers

## Reader Ordering Guide

Each OMNIKEY Smart Card readers 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 HID Global’s 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 Smartcard Readers**

OMNIKEY Model PC Interface	Customization Options	Description		Part Number	TAA* Part Number	Solution Compatibility
3111 Serial (Serial RS232 Interface)	<ul style="list-style-type: none"> <li>Logo</li> <li>Housing Color</li> <li>Cable</li> <li>Landing Contacts</li> </ul>	<ul style="list-style-type: none"> <li>Contact Reader</li> <li>EMV</li> <li>Standard (light) standing base</li> <li>TAA compliant</li> </ul>			R31110015-1	Crescendo Crescendo on the Desktop
3021 USB	<ul style="list-style-type: none"> <li>Logo</li> <li>Housing Color</li> <li>Cable</li> </ul>	<ul style="list-style-type: none"> <li>Contact Reader</li> <li>EMV, CCID</li> <li>Transparent housing</li> <li>TAA compliant</li> </ul>		<b>R30210015-1</b>	R30210009-1	Crescendo Crescendo on the Desktop
3121 USB	<ul style="list-style-type: none"> <li>Logo</li> <li>Housing Color</li> <li>Cable</li> <li>Landing Contacts</li> </ul>	<ul style="list-style-type: none"> <li>Contact Reader</li> <li>EMV, CCID</li> <li>Standard (light) standing base</li> <li>TAA compliant</li> </ul>		<b>R31210020-01</b>	R31210049-1	Crescendo Crescendo on the Desktop
3121 USB (Heavy standing base)	<ul style="list-style-type: none"> <li>Logo</li> <li>Housing Color</li> <li>Cable</li> <li>Landing Contacts</li> </ul>	<ul style="list-style-type: none"> <li>Contact Reader</li> <li>EMV, CCID</li> <li>Heavy standing base (100 gram) and middle piece</li> <li>TAA compliant</li> </ul>			R31210095-1	Crescendo Crescendo on the Desktop
3121 USB (Jumbo standing base)	<ul style="list-style-type: none"> <li>Logo</li> <li>Housing Color</li> <li>Cable</li> <li>Landing Contacts</li> </ul>	<ul style="list-style-type: none"> <li>Contact Reader</li> <li>EMV, CCID</li> <li>Jumbo standing base (431 gram) and middle piece</li> <li>TAA compliant</li> </ul>		<b>R31210125</b>	R31210103	Crescendo Crescendo on the Desktop
3921 (USB Interface)	<ul style="list-style-type: none"> <li>Housing Color</li> <li>Cable</li> </ul>	<ul style="list-style-type: none"> <li>Contact Reader CCID compliant</li> <li>Fits into 3.5" Floppy Bay</li> <li>Available with internal or external USB cable</li> </ul> Retail Version includes: <ul style="list-style-type: none"> <li>Driver CD</li> <li>internal &amp; external USB cable</li> </ul>		<b>R39210001-1 (int. USB)</b>		Crescendo
				<b>R39210009-1 (ext. USB)</b>		
				<b>R39210003-1 (Retail)</b>		
2061 Bluetooth	<ul style="list-style-type: none"> <li>Bluetooth</li> <li>USB 2.0( for configuration and charging)</li> </ul>	<ul style="list-style-type: none"> <li>Bluetooth connected contact smartcard reader</li> <li>Lanyard attachable</li> <li>Two belt-clips</li> <li>Charging cable</li> </ul>		<b>R20610000-1</b>		Crescendo Crescendo on the Desktop

OMNIKEY Model PC Interface	Customization Options	Description		Part Number	TAA* Part Number	Solution Compatibility
4040 PCMCIA	<ul style="list-style-type: none"> <li>Label (top)</li> </ul>	<ul style="list-style-type: none"> <li>Contact Reader</li> <li>EMV</li> <li>TAA compliant</li> </ul>			R40400012	Crescendo Crescendo on the Desktop
4321 ExpressCard™ 54	<ul style="list-style-type: none"> <li>Label (top)</li> </ul>	<ul style="list-style-type: none"> <li>Contact Reader</li> <li>EMV, CCID</li> <li>Optional with or without insertion lip</li> <li>TAA compliant</li> </ul>			R43210001-2 (No Lip) R43210002-1 (with Lip)	Crescendo Crescendo on the Desktop
4121 ExpressCard™	<ul style="list-style-type: none"> <li>Logo</li> <li>Label (top)</li> </ul>	<ul style="list-style-type: none"> <li>Full-featured Contactless (13,56 MHz) Desktop Reader</li> <li>Transparent card retainer</li> <li>Fits into ExpressCard™ 34mm and 54mm slots</li> <li>Optional mechanical 54mm adapter for better stability</li> </ul>		<b>R41210001-1</b> Optional 54mm Adaptor: <b>A41210001</b>	N/A	iCLASS on the Desktop
6121 USB Dongle	<ul style="list-style-type: none"> <li>Logo</li> <li>Housing Color</li> </ul>	<ul style="list-style-type: none"> <li>USB 2.0 Dongle (SIM-sized card)</li> <li>EMV, CCID</li> <li>Key ring attachable</li> <li>Optionally TAA compliant</li> </ul>		<b>R61210020-2</b>	R61210020-TAA	
6221 MicroSD USB 2.0 interface	<ul style="list-style-type: none"> <li>Logo</li> <li>Housing Color</li> </ul>	<ul style="list-style-type: none"> <li>Contact SIM sized card reader with Micro SD Memory support</li> <li>ISO 7816 SIM-Size (ID-000) contact slot</li> <li>Micro SDHC memory card slot supporting up to 32GB</li> <li>USB 2.0</li> </ul>		<b>R62210000</b>	N/A	
3621 USB PINPAD	<ul style="list-style-type: none"> <li>Logo</li> <li>Housing Color</li> </ul>	<ul style="list-style-type: none"> <li>Contact Reader</li> <li>Secure Pin Entry (class 2)</li> <li>EMV, CCID</li> <li>TAA compliant</li> </ul>		N/A	R36210010-1	Crescendo
3821 USB PINPAD	<ul style="list-style-type: none"> <li>Logo</li> <li>Housing Color</li> </ul>	<ul style="list-style-type: none"> <li>Contact Reader</li> <li>Secure Pin Entry (class 2/3)</li> <li>With display</li> <li>EMV, CCID</li> <li>TAA compliant</li> </ul>		N/A	R38210012-1	Crescendo
5321 USB (V2)	<ul style="list-style-type: none"> <li>Logo</li> <li>Housing Color</li> <li>Cable</li> </ul>	<ul style="list-style-type: none"> <li>Contactless (13,56 MHz) and Contact Reader</li> <li>Transparent bracket</li> <li>EMV, CCID</li> <li>Optionally TAA compliant</li> </ul>		<b>R53210037-2</b>	R53210037-3	Crescendo iCLASS on the Desktop Crescendo on the Desktop
5321 CL SAM (USB Interface)	<ul style="list-style-type: none"> <li>Logo</li> <li>Housing Color</li> <li>Cable</li> </ul>	<ul style="list-style-type: none"> <li>Contactless (13,56 MHz) and SIM-sized Contact Reader</li> <li>Supporting SIM sized cards</li> <li>Transparent bracket</li> <li>Optionally TAA compliant</li> </ul>		<b>R53210038-2</b>	R53210038-3	iCLASS on the Desktop



OMNIKEY Model PC Interface	Customization Options	Description		Part Number	TAA* Part Number	Solution Compatibility
5321 CR (V2) (USB Interface)	<ul style="list-style-type: none"> <li>Cable</li> </ul>	<ul style="list-style-type: none"> <li>Contactless (13.56MHz) Reader closed housing</li> <li>No edges and grooves for easy cleaning</li> <li>Waterproof casing IP67</li> <li>TAA compliant</li> </ul>		N/A	R53210029-1	iCLASS on the Desktop
6321 USB	<ul style="list-style-type: none"> <li>Logo</li> <li>Housing Color</li> </ul>	<ul style="list-style-type: none"> <li>Contactless (13.56 MHz) and SIM-sized contact reader</li> <li>Special card holder</li> <li>CCID</li> <li>Optionally TAA compliant</li> </ul>		R63210004-1	R63210001-1	iCLASS on the Desktop
6321 CLi USB	<ul style="list-style-type: none"> <li>Logo</li> <li>Housing Color</li> </ul>	<ul style="list-style-type: none"> <li>Contactless Dongle Reader</li> <li>iCLASS only</li> <li>Special card holder</li> </ul>		R63210003-1	N/A	iCLASS on the Desktop
5321 CLi USB	<ul style="list-style-type: none"> <li>Logo</li> <li>Housing Color</li> <li>Cable</li> </ul>	<ul style="list-style-type: none"> <li>Contactless Desktop Reader</li> <li>iCLASS only</li> <li>Closed housing</li> <li>Transparent card retainer</li> </ul>		R53210039-1	N/A	iCLASS on the Desktop
5321 PAY	<ul style="list-style-type: none"> <li>Logo</li> <li>Housing Color</li> </ul>	<ul style="list-style-type: none"> <li>Payment EMVCo 2.0 CL certified</li> <li>Transaction status LEDs</li> <li>Contactless (13,56 MHz) and SIM-sized Smart Card Reader</li> <li>Transparent card retainer</li> </ul>		R53210021	N/A	iCLASS on the Desktop
5127 CK	<ul style="list-style-type: none"> <li>Logo</li> <li>Housing Color</li> <li>Label</li> </ul>	<ul style="list-style-type: none"> <li>Contactless (13,56 MHz &amp; 125 kHz HID Prox) Smart Card Reader</li> <li>CCID or Keyboard Wedge Operation Mode</li> <li>Closed Housing</li> <li>Web based configuration interface</li> </ul>		R51270002-1	N/A	
5326 DFR (USB Interface)	<ul style="list-style-type: none"> <li>Logo</li> <li>Housing Color</li> <li>Cable</li> </ul>	<ul style="list-style-type: none"> <li>Contactless (13,56 MHz &amp; 125 kHz HID Prox) Smart Card Reader</li> <li>CCID support</li> <li>Closed Housing</li> <li>HID Prox, iCLASS &amp; iCLASS SE support</li> </ul>		R53260001-1	N/A	
5325 USB PROX	<ul style="list-style-type: none"> <li>Logo</li> <li>Housing Color</li> <li>Cable</li> </ul>	<ul style="list-style-type: none"> <li>Contactless (125 kHz HID Prox) and Contact Reader</li> <li>Transparent card retainer</li> <li>EMV, CCID</li> <li>TAA compliant</li> </ul>			R53250001-1	Crescendo Prox on the Desktop Crescendo on the Desktop
5321 CL USB	<ul style="list-style-type: none"> <li>Logo</li> <li>Housing Color</li> <li>Cable</li> </ul>	<ul style="list-style-type: none"> <li>Contactless (13,56 MHz) Desktop Reader</li> <li>Closed housing</li> <li>Transparent card retainer</li> </ul>		R53210038-1	N/A	iCLASS on the Desktop

OMNIKEY Model PC Interface	Customization Options	Description		Part Number	TAA* Part Number	Solution Compatibility
5325 CL USB PROX	<ul style="list-style-type: none"> <li>▪ Logo</li> <li>▪ Housing Color</li> <li>▪ Cable</li> </ul>	<ul style="list-style-type: none"> <li>▪ Contactless Only Reader (125 kHz HID® Prox)</li> <li>▪ Closed Housing</li> <li>▪ Transparent card retainer</li> <li>▪ TAA compliant</li> </ul>			R53250002-1	Prox on the Desktop
Heavy standing base 31xx		<ul style="list-style-type: none"> <li>▪ Heavy standing base</li> <li>▪ Middle piece</li> <li>▪ Weight includes middle piece 100 gram</li> </ul>			A00000002	OMNIKEY 3121 OMNIKEY 3111
Jumbo standing base 31xx		<ul style="list-style-type: none"> <li>▪ Jumbo standing base</li> <li>▪ Middle piece</li> <li>▪ Weight includes middle piece 431 gram</li> </ul>			A00000003	OMNIKEY 3121 OMNIKEY 3111

## OMNIKEY Customization Program

HID offers a number of standard customizations for its OMNIKEY Smartcard 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)



**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 Smartcard Readers (column Customization Options).

Landing Contact Unit. No additional information required.

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

Neutral – No HID Logo. No additional information required.

Customization option is available for all readers except: 4040, 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 600dpi.  
**Logo positioning (description / attached drawings file):** \_\_\_\_\_

Customization option is available for all readers except 4040, 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, 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 600dpi.  
**Color Codes & coding system for all colors in label:** \_\_\_\_\_

Customization option available for the top label of 4040 & 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, 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.



# 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<sup>1</sup> Cards (Additional fee and longer lead-time)

- 402/407 Crescendo Card
- 1597 Smart ISOProx II Card
- 211 - iCLASS Embeddable Card
- 1436/1446 - HID MIFARE®
- 1456 - HID DESFire®
- 400 Combo Contact/Contactless Card
- 1598 Smart DuoProx II Card
- 213 - iCLASS Prox embeddable Card
- 1437/1447 - HID Prox and MIFARE
- 1457 - HID 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 <sup>2,5</sup>:  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 <sup>7</sup>:  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: \_\_\_\_\_

## 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 E-Mail 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, should be included in their native program. If a Photoshop image is placed in a Quark 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 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 (dots per inch) 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.

## Anti-Counterfeiting Descriptions

### Printing Types

- 1) **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-sub, reverse transfer and resin transfer.
- 2) **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 re-print 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).



**Custom Card Artwork Placement and Inkjet Location Guides**  
**Standard PVC and Composite PVC/Polyester Cards**

<b>Company Name:</b>		<b>PO No.</b>		<b>Date</b>	
<b>Quantity:</b>		<b>Card and Artwork File No.</b>			

**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**

Slot Punch Indicators

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

Front

Contact Smart Chip location to be embedded compliant with ISO 7816 on front or back side.  
 HID does not recommend placing custom graphics on either side of the Contact Smart Chip area.

Back

**Optional Magnetic Stripe**  
**(1/2" HICO/High Energy OE)**

HID                      12345                      12345 YYYYYYYY-YY

↑                      ↑

125 kHz #                      13.56 MHz #

**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:** \_\_\_\_\_

## 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](mailto:oneidentity@hidglobal.com)

Thank you for taking the time to complete this form!

**NOTE:** Questions marked \* are mandatory.

### CONTACT DETAILS

- 1a. \*Your name: \_\_\_\_\_
- 1b. \*Name of your organisation: \_\_\_\_\_
- 1c. \*Phone number: \_\_\_\_\_
- 1d. \*E-mail address: \_\_\_\_\_

- 1e. \*Evaluation Kit Delivery address:
- Address 1: \_\_\_\_\_
- Address 2: \_\_\_\_\_
- Address 3: \_\_\_\_\_
- Town/City: \_\_\_\_\_
- ZIP/Postcode: \_\_\_\_\_
- Country: \_\_\_\_\_

- 1f. \*Nature of your business / organisation
- 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 / organisation will the cards be deployed in?

- 2a. End-user business
- Local/central government:  Healthcare:
- Defence:  Education:
- Police:  Energy:
- Utilities:  Manufacturing:
- Financial services:  Enterprise:
- Other - specify: \_\_\_\_\_

- 2b. Potential number of users in first year: \_\_\_\_\_
- 2c. Potential number of users over next 5 years: \_\_\_\_\_
- 2d. Likely timescales for deployment:

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





**CARD REQUIREMENTS – CONTACTLESS CHIP**

3a. \*Physical smart card applications click all that apply:

- |                        |                          |                              |                          |
|------------------------|--------------------------|------------------------------|--------------------------|
| Door Access:           | <input type="checkbox"/> | ePurse / eVending / eTicket: | <input type="checkbox"/> |
| Time and Attendance:   | <input type="checkbox"/> | Secure Print Release:        | <input type="checkbox"/> |
| Mustering:             | <input type="checkbox"/> | Car Park Access:             | <input type="checkbox"/> |
| Loyalty/Reward scheme: | <input type="checkbox"/> | Event Management:            | <input type="checkbox"/> |

Other - specify: \_\_\_\_\_

3b. \*Contactless technologies, click all that apply:

- |           |                          |              |                          |
|-----------|--------------------------|--------------|--------------------------|
| HID Prox: | <input type="checkbox"/> | Indala Prox: | <input type="checkbox"/> |
| iCLASS:   | <input type="checkbox"/> | MIFARE:      | <input type="checkbox"/> |
| Legic:    | <input type="checkbox"/> |              |                          |

Other - specify \_\_\_\_\_

3c. Do you have any particular contactless chip coding requirements?  
\_\_\_\_\_

3d. Do you have any particular contactless chip programming requirements?  
\_\_\_\_\_



**CARD REQUIREMENTS – CONTACT CHIP**

4a. \*Logical smart card applications click all that apply:

- |                                 |                          |                         |                          |
|---------------------------------|--------------------------|-------------------------|--------------------------|
| Secure PC / Network Logon:      | <input type="checkbox"/> | Digital Signature:      | <input type="checkbox"/> |
| Secure E-mail:                  | <input type="checkbox"/> | Secure VPN/SSL:         | <input type="checkbox"/> |
| Secure Web Access:              | <input type="checkbox"/> | Secure Single Sign On:  | <input type="checkbox"/> |
| Secure Pre-boot Authentication: | <input type="checkbox"/> | Secure Disk Encryption: | <input type="checkbox"/> |

Other - specify: \_\_\_\_\_

4b.\*Contact standards support, click all that apply:

- |                                 |                          |                      |                          |
|---------------------------------|--------------------------|----------------------|--------------------------|
| CryptoAPI / MSCAPI:             | <input type="checkbox"/> | PKCS#11:             | <input type="checkbox"/> |
| Microsoft BaseCSP / Minidriver: | <input type="checkbox"/> | PKCS#15:             | <input type="checkbox"/> |
| FIPS140-2:                      | <input type="checkbox"/> | Common Criteria EAL: | <input type="checkbox"/> |
| FIPS 201 (PIV):                 | <input type="checkbox"/> | BAC/EAC:             | <input type="checkbox"/> |
| EMV:                            | <input type="checkbox"/> |                      |                          |

Other - specify: \_\_\_\_\_

**END-USER ENVIRONMENT**

5a. Which operating system(s) will the cards be used with – specify:

Server (example: Windows 2003 Server): \_\_\_\_\_

Client (example: Windows XP or Vista): \_\_\_\_\_

5b Certificate authority – specify: \_\_\_\_\_

(example Microsoft CA)

5c.\* Do you intend to use a Card Management system. If so which one:

- |                     |                          |              |                          |
|---------------------|--------------------------|--------------|--------------------------|
| Microsoft ILM 2007: | <input type="checkbox"/> | Bell ID CMS: | <input type="checkbox"/> |
| Intercede MyID:     | <input type="checkbox"/> | AET BlueX:   | <input type="checkbox"/> |
| ActivIdentity CMS:  | <input type="checkbox"/> | None:        | <input type="checkbox"/> |

Other - specify: \_\_\_\_\_



**CARD PERSONALISATION**

6a. Are you interested in having your cards graphically personalized by HID?  
Yes:  No:

6b. If yes, state any requirements you may have  
\_\_\_\_\_



**READERS**

7a. Do you have any requirements for contact/contactless readers.  
If so specify.

For more information, click [here](#).



**PRINTERS**

8a. Do you have any requirements for printers.  
If so, specify.

For more information, click [here](#).



**ACCESSORIES**

9a. Do you have any requirements for card accessories as card holders, yoyo's or lanyards.  
If so, specify.

**GENERAL**

10a. Where did you hear about Crescendo:  
Salesperson:  Website:   
Conference:  Advert:   
Existing customer:

Other - specify:

10b. When may we contact you?

10c. feel free to include any other relevant information here.

