



# iCLASS SE™

## How to Order Guide

D00545, Release B.0  
December 2011

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[www.hidglobal.com/documents/iclass\\_se\\_htog\\_en.pdf](http://www.hidglobal.com/documents/iclass_se_htog_en.pdf)

To check order status go to:

[www.hidglobal.com > Knowledge Center > Customer Support > Customer Order Status.](http://www.hidglobal.com > Knowledge Center > Customer Support > Customer Order Status)

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This document is subject to change without notice.

### Document History

Date	Author	Description	Version
December 15, 2011	DD / SA	Credentials - Added 310/315 and 380/385 credentials Readers – Programming – Modified	B.0
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## iCLASS SE Credential and Reader System Introduction

Building on the success of its proven HID iCLASS® standard for 13.56 MHz contactless smart card technology, HID Global has now created a next-generation access control platform and open ecosystem. This new platform is based on HID's Trusted Identity Platform™ (TIP) architecture for a new era of advanced applications, mobility and heightened security threats. By enabling a new class of portable identity credentials for securely provisioning and safely embedding into both fixed and mobile devices, HID Global's next-generation platform provides advanced security and performance functionality while enabling the use of portable and virtual credentials on Secure Element-based devices (such as mobile devices). Furthermore, iCLASS SE™ enables users to add security levels, customize security protection, and extend system capabilities without having to overhaul the device infrastructure and applications.

HID Global's new access control platform goes beyond the traditional smart card model to introduce a more secure, standards-based, technology-independent and flexible identity data structure based on a new portable credential and virtual methodology called the Secure Identity Object™ (SIO). The first product supporting interpretation and authentication of this data structure is HID Global's iCLASS SIO-Enabled (SE) reader and credential family. The iCLASS SE family is designed to raise the bar for overall system security while supporting key emerging technologies and delivering superior performance, enhanced usability, and increased environmental sustainability. In addition, the iCLASS SE readers and credentials is the first access control products to operate under the company's Trusted Identity Platform™ (TIP) framework creating a secure and trusted boundary within which all cryptographic keys governing system security is delivered with end-to-end privacy and integrity.

### iCLASS SE Platform Overview

The first endpoints based on the Secure Identity Object platform is HID Global's iCLASS SIO-Enabled (SE) readers and credentials. The family includes the following.

#### Credentials, including...

- iCLASS SIO-Enabled (SE) and SIO-Ready (SR) both belong to iCLASS SE family
- SIO-Enabled Technology for MIFARE®
- SIO-Enabled Technology for MIFARE® DESFire® EV1

#### Readers, including...

- iCLASS SE™
- multiCLASS SE™

#### Reader Programming Cards, including...

- Configuration cards
- Firmware update cards

### Credentials

iCLASS SE Credentials are available in either SIO-Enabled (SE) or SIO-Ready (SR) configuration:

- SE credentials come with a single access control data payload, the SIO. Because the SIO provides the highest level of data integrity and privacy, this type of card maximizes security.
- SR credentials come with at least two access control data payloads, the SIO and a legacy access control data payload (for backward compatibility with currently deployed system). SR credentials should be purchased when readers supporting the legacy access control data payloads are installed on site, and the site plans to eventually migrate a site to SIO security.

iCLASS SE and SR Credentials come in all standard card bodies, including PVC, composite and clamshell from 2kb to 32kb in size.

- iCLASS SE credentials are designed to work in a **new** installation of iCLASS SE credentials and readers and are **not** compatible with standard iCLASS readers.
- iCLASS SR credentials are designed to work in an **existing** installation of standard iCLASS credentials, standard iCLASS readers and iCLASS SE readers. iCLASS SR credentials are compatible with standard iCLASS readers.

Card Type	Data Payload	Works alongside Standard iCLASS Cards & Readers	Advantage
SIO-Enabled (SE)	Single	No	Maximizes Security
SIO-Ready (SR)	Dual	Yes	Maximizes compatibility with deployed reader base.



MIFARE Classic and MIFARE DESFire EV1 credentials are available in SE configuration only. MIFARE DESFire EV1 SE credentials come in standard card body options.

Card Technology	SE Available	SR Available
iCLASS SE 2, 16, 32 Kb	Yes	Yes
SIO-Enabled Technology for MIFARE DESFire EV1 8KB	Yes	No
SIO-Enabled Technology for MIFARE Classic 1K or 4KB	Yes	No

**Note:** SIO objects are neither provisioned nor relevant to HID Proximity technology, they only apply to 13.56 MHz contactless Smart Card technology.

### Credential Markings

Model Number	Description	External Card Model Designation
3000	iCLASS SE 2k	©HID iCLASS JH SE
3001 / 3002	iCLASS SE 16k	©HID iCLASS JH SE
3003 / 3004	iCLASS SE 32k	©HID iCLASS JH SE
3050	iCLASS SE 2k Composite	©HID iCLASS JH SE XT
3051 / 3052	iCLASS SE 16k Composite	©HID iCLASS JH SE XT
3053 / 3054	iCLASS SE 32k Composite	©HID iCLASS JH SE XT
3100	iCLASS SE 2k + Prox	©HID iCLASS JAH SE
3101 / 3102	iCLASS SE 16k + Prox	©HID iCLASS JAH SE
3103 / 3104	iCLASS SE 32k + Prox	©HID iCLASS JAH SE
3150	iCLASS SE 2k + Prox	©HID iCLASS JAH SE XT
3151 / 3152	iCLASS SE 16k + Prox	©HID iCLASS JAH SE XT
3153 / 3154	iCLASS SE 32k + Prox	©HID iCLASS JAH SE XT
3400	SIO-Enabled Technology for MIFARE 1K	©HID MIFARE BH SE
3406	SIO-Enabled Technology for MIFARE 4K	©HID MIFARE CH SE
3450	SIO-Enabled Technology for MIFARE 1K Composite	©HID MIFARE BH SE XT
3456	SIO-Enabled Technology for MIFARE 4K Composite	©HID MIFARE CH SE XT
3500	SIO-Enabled Technology for MIFARE 1K + Prox	©HID MIFARE BAH SE
3506	SIO-Enabled Technology for MIFARE 4K + Prox	©HID MIFARE CAH SE
3550	SIO-Enabled Technology for MIFARE 1K + Prox Composite	©HID MIFARE BAH SE XT
3556	SIO-Enabled Technology for MIFARE 4K + Prox Composite	©HID MIFARE CAH SE XT
3700	SIO-Enabled Technology for MIFARE DESFire EV1 8K	©HID DESFire DH SE
3750	SIO-Enabled Technology for MIFARE DESFire EV1 8K Composite	©HID DESFire DH SE XT
3800	SIO-Enabled Technology for MIFARE DESFire EV1 8K + Prox	©HID DESFire DAH SE
3850	SIO-Enabled Technology for MIFARE DESFire EV1 8K + Prox Composite	©HID DESFire DAH SE XT



## iCLASS SE Readers

The iCLASS SE has multiple card data interpreters that enable the reading, authentication, interpretation and output of credential data. The following is a list of interpreters and their primary card compatibility target and specialty.

- **Default - All iCLASS SE and multiCLASS SE Readers.**
  - **Secure Identity Interpreter.** Choose Secure Identity Interpreter for compatibility with HID's Secure Identity Object (SIO), offers highest level of security of all reader interpreters because it is based on data layer protection utilizing industry standard secure authentication and signing algorithms.
- **Default for all multiCLASS SE Readers**
  - **125 kHz Prox Interpreter.** for 125 kHz credentials including simultaneous support of HID Prox, Indala (ASP10022 26-bit), AWID and EM4102.
- **Non-Default (security can be downgraded during order entry or in field to support)**
  - **Standard iCLASS Access Control Interpreter.** For compatibility with standard iCLASS Access Control Applications on iCLASS credentials, choose 13.56 MHz Interpreter = "Standard".
  - **CSN Interpreter.** For CSNs of ISO14443A/B and ISO15693 compliant credentials, choose the CSN Interpreter.

Additionally, iCLASS SE and multiCLASS SE readers come in a variety of finished reader forms and hardware configurations including the following.

- **Mini-Mullion.** For a mullion mounted product, which is the smallest version, choose Mini-Mullion.
- **Mullion.** For a mullion mounted product sized the same as MiniProx, select Mullion.
- **Wall Switch.** For standard Wall Switch mount, US / EU / APAC mount choose Wall Switch.
- **Euro Square.** For standard EU / APAC 60mm mount, select Euro Square.
- **Wall Switch Keypad.** For standard wall switch mount, US / EU / APAC Keypad mount choose Wall Switch Keypad.

Furthermore, iCLASS SE and multiCLASS SE readers support a variety of communication protocol variations for maximum panel compatibility, including the following.

- **Wiegand.** Choose Wiegand for industry standard compatibility.
- **Clock-and-Data.** Choose Clock-and-Data for industry standard compatibility.

## README – Important Guidelines

Here are some simple guidelines for the system integrators, product managers and purchasing agents.

### Logistics - Ordering Information

- Order iCLASS SE, SIO-Enabled Technology for MIFARE Classic or MIFARE DESFire EV1 credentials if you want your iCLASS SE readers to work out-of-the-box without configuration and with maximized security.
- Your iCLASS SR credentials work out-of-the-box with standard iCLASS readers!
- Your iCLASS SE credentials DO NOT work with standard iCLASS readers!
- Downgrade the security of your iCLASS SE readers either when ordering product (order non-default T = standard setting) or in the field using a configuration card in order to read standard iCLASS credentials. iCLASS SE readers always work with iCLASS SE credentials.

### Interoperability - Important Situations

- **New Sites** - When deploying credentials for a new site, deploy iCLASS SE Credentials with iCLASS SE Readers for maximum security with the most up-to-date credentialing and reader system.
- **iCLASS Existing Sites** - When deploying credentials to an existing site with standard iCLASS credentials and readers, purchasing iCLASS SIO-Ready (SR) credentials along with iCLASS SE readers with downgraded security (supporting standard interpreters) provides full interoperability with HID's latest and greatest credential and reader platform. This provides options to upgrade security in the future without rip-and-replace of the newly purchased readers. Once all readers on site are iCLASS SE the customer can begin ordering iCLASS SE cards. iCLASS SE, SR and standard iCLASS cards can work simultaneously in the field using iCLASS SE's 13.56 MHz "Standard" interpreter. Once all cards in the population are SR or SE, readers can be upgraded to support only SIO's on either SR or SE cards.
- **125 kHz Existing Sites** - Deploying credentials to an existing 125 kHz site with HID Prox Indala Proximity credentials and readers (HID, Indala, AWID, and EM4102), purchase multi-technology iCLASS SE Credentials along with multiCLASS SE Readers for full credential and reader interoperability and a relaxed migration timeline.
- **CP400 & CP575** – The field programmers are NOT compatible with iCLASS SE / SR credentials. Only factory programming of iCLASS credentials with SIO is available at this time.

### What should I know about security keysets?

iCLASS SE readers and SE credentials offer two keyset security schemes, Standard and Elite.

The **Standard Security Program** provides universal keysets that offer maximized compatibility by keying readers and cards with matching security for use in the general population. This allows for maximized compatibility because readers and cards are not keyed on a per site/company basis but rather all keyed the same. This offers the advantage to the integrator as a standard stock of readers and cards will interoperate for a variety of sites/companies, rather than needing different stocks of readers and cards for each individual site. iCLASS SE readers provide two Standard Security Keysets that offer compatibility with the following credentials.

Standard Security Keyset	Use With	Compatibility with these Credentials
Version 1	Standard 13.56 MHz Interpreter	iCLASS SE iCLASS SR Standard iCLASS SIO-Enabled Technology for MIFARE Classic SIO-Enabled Technology for MIFARE DESFire EV1
Version 2	SIO 13.56 MHz Interpreter	iCLASS SE iCLASS SE + Prox SIO-Enabled Technology for MIFARE Classic SIO-Enabled Technology for MIFARE Classic + Prox SIO-Enabled Technology for MIFARE DESFire EV1 SIO-Enabled Technology for MIFARE DESFire EV1 + Prox



Alternatively, the **SE Elite™ Security Program** supports a unique keyset on a per site/company basis.

The keyset governs a variety of keys, including...

- Media (credential) keys for iCLASS SE/SR, SIO-Enabled Technology for MIFARE Classic and MIFARE DESFire EV1 credentials
- SIO authenticity and privacy keys (media independent)
- Configuration programming keys (for programming reader configuration, also media independent)

When utilizing HID's standard key set for the above keys, all standard keyed credentials work with all standard keyed readers. Additionally, any Standard Security configuration card configures a Standard Security reader (only accomplished during the first five (5) seconds after reader powers-up). Conversely, when utilizing the iCLASS Elite program, only site/company specific Elite credentials and programming cards work with matching readers.

### **Elite Key Components – Ordering Information**

- Direct customers of HID must be authorized to purchase components with Elite keys. If you are not authorized, you must have the key owner authorize you through the Authorization form. See [www.hidglobal.com/main/services/credential-programs/class-elite](http://www.hidglobal.com/main/services/credential-programs/class-elite).
- Ensure the Elite flag is set in the part number (of readers, credentials and programming cards).
- All Purchase Orders for Elite components must be ordered with the Elite reference number (starts with ICE).








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125 kHz Card Programming Information

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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: \_\_\_\_\_

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 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 slot punch at no additional charge. Some video imaging printers cannot accommodate pre-slot punched cards.
- <sup>6</sup> The ability to add a horizontal slot punch requires a different iCLASS antenna design. Users can expect a read range reduction of approximately 20% if they order options B or H for the Slot Punch.
- \* The composite construction is recommended for all cards with over-laminate applied. Consult with the printer manufacturer prior to ordering.



### 335 - iCLASS SE Clamshell Card Ordering Guide

Maximized security into installations that do NOT contain standard iCLASS credentials.

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

335 Base Model

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

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

**Secure Identity Object Programming**

P - Programmed with Security Identity Object (SIO)

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

**Front Packaging (Check One)**

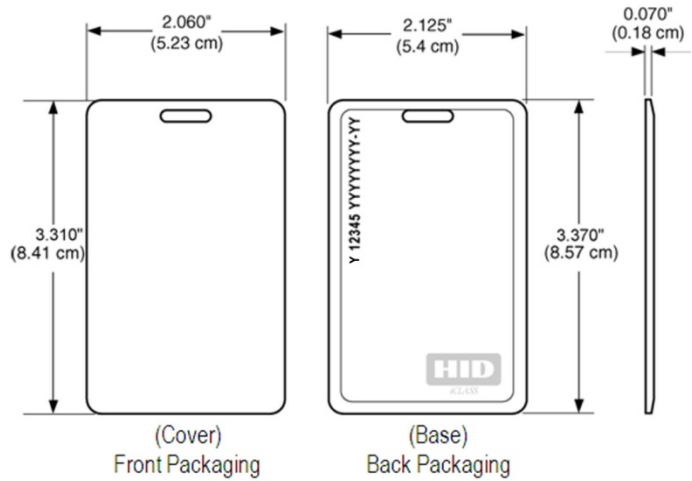
- M - Plain White Vinyl with Matte Finish
- G - Plain White with Gloss Finish
- A - iCLASS Clamshell - Adhesive Front<sup>1</sup>
- C - Custom Artwork - Specify Custom Artwork Number<sup>2</sup>

**Back Packaging (Check One)**

- S - Base with Molded HID Logo
- C - Custom Artwork - Specify Custom Artwork Number<sup>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)



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

V - Vertical Slot Punch

**Option - Custom Artwork<sup>2</sup>**

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

Enter your final card options from check boxes above. Example: 3350PMSMV

Final Part Number	335	0	P				V	-	(Options #)
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### iCLASS Card 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 # Start \_\_\_\_\_ Stop \_\_\_\_\_ External Card # Start \_\_\_\_\_ Stop \_\_\_\_\_

PIN (2-12 digits):  Sequential: Start # \_\_\_\_\_  Random: Length \_\_\_\_\_

Special Instructions: \_\_\_\_\_

<sup>1</sup> The part numbers for non-adhesive labels to be used with the iCLASS Clamshell with the adhesive front are 1324GGN31 without slot and 1324GGV31 with slot.  
<sup>2</sup> For new artwork files, contact Customer Service for custom artwork number, lead-times, and cost.  
<sup>3</sup> The external card number is placed in the top left-hand corner on the back of the card. HID logo molded into base on back.





## 208 - iCLASS SR Clamshell Card Ordering Guide

*Maximized compatibility* with added security into installations that DO contain standard iCLASS credentials.

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

208 Base Model

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

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

### Secure Identity Object Programming

H - Programmed with Security Identity Object (SIO)

### Standard Programming

P - Programmed with standard iCLASS Access Control Application.

### Front Packaging (Check One)

- M - Plain White Vinyl with Matte Finish
- G - Plain White with Gloss Finish
- A - iCLASS Clamshell - Adhesive Front<sup>1</sup>
- C - Custom Artwork - Specify Custom Artwork Number<sup>2</sup>

### Back Packaging (Check One)

- S - Base with Molded HID Logo
- C - Custom Artwork - Specify Custom Artwork Number<sup>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)

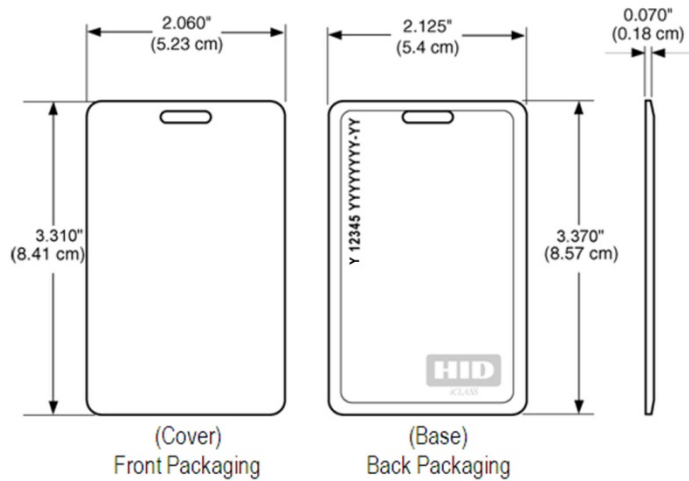
### Slot Punch<sup>5</sup> (Check One)

V - Vertical Slot Punch

### Option - Custom Artwork<sup>2</sup>

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

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



Enter your final card options from check boxes above. Example: 2080HPGSMV

Final Part Number	208	0	H	P			V	-	(Options #)
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## iCLASS Card 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 # Start \_\_\_\_\_ Stop \_\_\_\_\_ External Card # Start \_\_\_\_\_ Stop \_\_\_\_\_

PIN (2-12 digits):  Sequential: Start # \_\_\_\_\_  Random: Length \_\_\_\_\_

Special Instructions: \_\_\_\_\_

<sup>1</sup> The part numbers for non-adhesive labels to be used with the iCLASS Clamshell with the adhesive front are 1324GGN31 without slot and 1324GGV31 with slot.

<sup>2</sup> For new artwork files, contact Customer Service for custom artwork number, lead-times, and cost.

<sup>3</sup> The external card number is placed in the top left-hand corner on the back of the card. HID logo molded into base on back.



# SIO-Enabled Technology for MIFARE Classic Credentials

## 340/345 – MIFARE® Classic Card Ordering Guide

Encompasses the industry's broadest range of open standard contactless smart card products. Provides the memory structure and capacity to store multiple applications on a single credential.

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

- Base Models  3400 (1K) Standard PVC  3406 (4K) Standard PVC  
 3450 (1K) Composite 40% Polyester / PVC \*  3456 (4K) Composite Polyester 40% / PVC \*

### Secure Identity Object Programming

- P – Programmed with Security Identity Object (SIO)

### Front Packaging (Check One)

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

### Back Packaging (Check One)

- G - Plain White with Gloss Finish<sup>2</sup>  
 S - Standard HID 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  
 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)  
 N - No External Card Numbering  
 U – UID (CSN) HEX card numbering only (Inkjetted)  
 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>

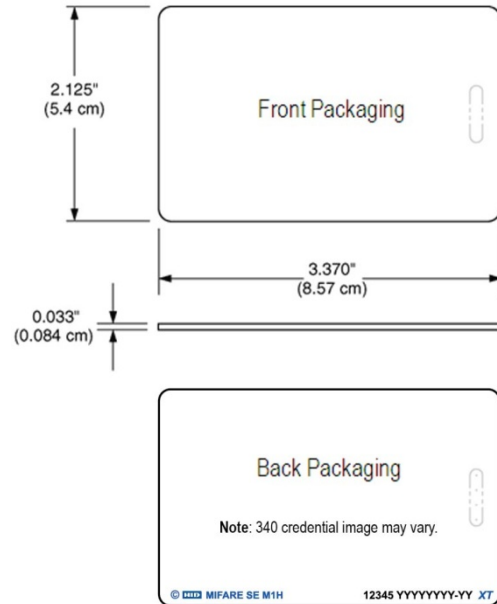
### Slot Punch<sup>5</sup> (Check One)

(IMPORTANT – MIFARE Classic credentials do not allow a slot punch due to the antenna design, use a badge holder to attach this card to a lanyard or badge clip.)

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

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

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



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

Enter your final card options from check boxes above. Example: 3400PGGNN

Final Part Number		P				N	-	(Options #)
-------------------	--	---	--	--	--	---	---	-------------

### 13.56 MHz Card Programming Information

Bit Numbers \_\_\_\_\_ (example: 26 bit) Format Number \_\_\_\_\_ (example: H10301)

Facility Code \_\_\_\_\_

(Custom Formats) Site Code \_\_\_\_\_ City Code \_\_\_\_\_ OEM Code \_\_\_\_\_

Internal Card No. Start \_\_\_\_\_ Stop \_\_\_\_\_

External Card No. Start \_\_\_\_\_ Stop \_\_\_\_\_

Special Instructions: \_\_\_\_\_

For Contact Smart Chip selection, refer to Logical Access How to Order guide. 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" "HID" 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 on Proximity Format Programming only.

<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.



### 350/355 – MIFARE® Classic + Prox Card Ordering Guide

Encompasses the industry's broadest range of open standard contactless smart card products. Provides the memory structure and capacity to store multiple applications on a single credential with the addition of Proximity technology for easier migration.

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

---

Base Models	<input type="checkbox"/> 3500 (1K) Standard PVC	<input type="checkbox"/> 3506 (4K) Standard PVC
	<input type="checkbox"/> 3550 (1K) Composite 40% Polyester / PVC *	<input type="checkbox"/> 3556 (4K) Composite Polyester 40% / PVC *

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**Programming (Check One)**

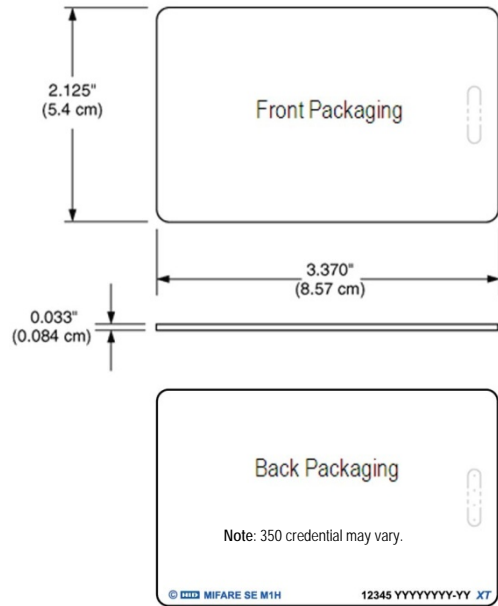
- P – Programmed with Security Identity Object (SIO) for MIFARE, Prox non-programmed
- R – Both interfaces programmed (MIFARE with Security Identity Object (SIO), Prox programmed with HID format)

**Front Packaging (Check One)**

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

**Back Packaging (Check One)**

- G - Plain White with Gloss Finish<sup>2</sup>
- S - Standard HID 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
- 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>



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

**125 KHz Prox 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 – MIFARE Classic credentials do not allow a slot punch due to the antenna design, use a badge holder to attach this card to a lanyard or badge clip.)

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

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

- |   |   |
|---|---|
| <input type="checkbox"/> M - Sequential Matching Internal/External (Inkjetted)                | <input type="checkbox"/> A - Sequential Matching Internal/External (Laser Engraved) <sup>4</sup>                |
| <input type="checkbox"/> N - No External Card Numbering                                       | <input type="checkbox"/> B - Sequential Internal/Sequential Non-Matching External (Laser Engraved) <sup>4</sup> |
| <input type="checkbox"/> U - UID (CSN) HEX card numbering only (Inkjetted)                    | <input type="checkbox"/> C - Random Internal/Non-Matching Sequential External (Laser Engraved) <sup>4</sup>     |
| <input type="checkbox"/> S - Sequential Internal/Sequential Non-Matching External (Inkjetted) |   |
| <input type="checkbox"/> R - Random Internal/Non-Matching Sequential External (Inkjetted)     |   |

**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: 3506PGGMNU

Final Part Number						N		-		(Options #)
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**13.56 MHz Card Programming Information**

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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: \_\_\_\_\_



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125 kHz Card Programming Information


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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, refer to Logical Access How to Order guide. 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 on Proximity Format Programming only.

<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.



# SIO-Enabled Technology for MIFARE DESFire EV1 Credentials

## 370/375 – MIFARE® DESFire® EV1 Card Ordering Form Guide

Based on open global standards for security, and is interoperable with existing MIFARE DESFire infrastructures. Ensure each required option has been checked with the appropriate choice to fulfill a completed order form.

Base Model  3700 Standard PVC  3750 Composite 40% Polyester / PVC \*

### DESFire EV1 Memory Size

C - 8K Bytes DESFire EV1

### Secure Identity Object Programming

P – Programmed with Security Identity Object (SIO)

### Front Packaging (Check One)

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

### 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)
- 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>

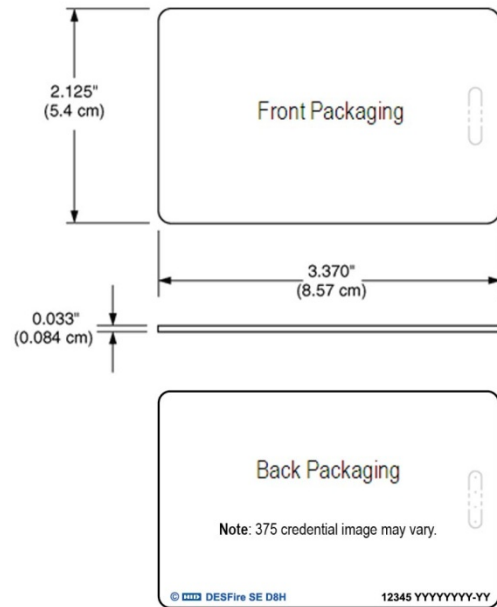
### Slot Punch

(IMPORTANT – MIFARE DESFire EV1 credentials do not allow a slot punch due to the antenna design, use a badge holder to attach this card to a lanyard or badge clip.)

N - No Slot Punch

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

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



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

Enter your final card options from check boxes above. Example: 3750CPGGNN

Final Part Number		C	P				N	-	(Options #)
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### 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, refer to Logical Access How to Order guide. 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 on Proximity 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.

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



### 380/385 – MIFARE® DESFire® EV1 + Prox Card Ordering Form Guide

Based on open global standards for security, and is interoperable with existing MIFARE DESFire infrastructures with the addition of Proximity technology for easier migration.

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

Base Model  3800 Standard PVC  3850 Composite 40% Polyester / PVC \*

**DESFire EV1 Memory Size**

C - 8K Bytes DESFire EV1

**Programming (Check One)**

- P – Programmed with Security Identity Object (SIO) for DESFire, Prox non-programmed
- R – Both interfaces programmed (DESFire with Security Identity Object (SIO), Prox programmed with HID format)

**Front Packaging (Check One)**

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

**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>

**125 KHz 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 – MIFARE DESFire EV1 credentials do not allow a slot punch due to the antenna design, use a badge holder to attach this card to a lanyard or badge clip.)

N - No Slot Punch

**13.56 MHz DESFire 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>

**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: 3850CPGGNNN

Final Part Number		C					N		-		(Options #)
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**13.56 MHz Card Programming Information**

Bit Numbers \_\_\_\_\_ (example: 26 bit)      Format Number \_\_\_\_\_ (example: H10301)

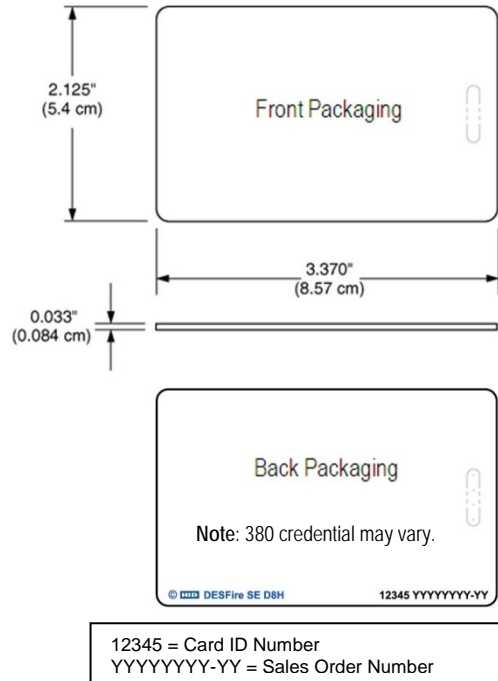
Facility Code \_\_\_\_\_

(Custom Formats) Site Code \_\_\_\_\_ City Code \_\_\_\_\_ OEM Code \_\_\_\_\_

Internal Card No. Start \_\_\_\_\_ Stop \_\_\_\_\_

External Card No. Start \_\_\_\_\_ Stop \_\_\_\_\_

Special Instructions: \_\_\_\_\_





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125 kHz Card Programming Information


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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, refer to Logical Access How to Order guide. 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.



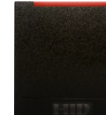


<sup>3</sup> The external card number is placed in the bottom right-hand corner on the back of the card on Proximity Format Programming only. Permanent Unique MIFARE 56 Bit serial # cannot be printed on cards.

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

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

## iCLASS SE Readers – Maximized Security with SIO (Only) Interpreter

For **maximized security** into installations that do NOT contain standard iCLASS credentials. Works with iCLASS SE, SE for MIFARE Classic and SE for MIFARE DESFire EV1 credentials.

Description		Part Number								
		Base Part No.	125 kHz Prox Interpreters <sup>1</sup>	13.56 MHz Interpreters	Controller Communication	Controller Hardware Connection	Product Version	Color	Security <sup>3</sup>	Configuration Settings <sup>4</sup>
	iCLASS SE™ R10 & multiCLASS SE™ RP10 Contactless Smart Card Reader: Finished Reader, Mini-Mullion	900	N = Without Prox P = With Prox (Std) L = With Prox (Custom)	N = SIO	N = Wiegand C = Clock-and-Data	N = Pigtail T = Terminal Strip	A	K = Black G = Gray	2 = Standard-2 E = Elite	0000 = Default
	iCLASS SE R15 & multiCLASS SE RP15 Contactless Smart Card Reader: Finished Reader, Mullion	910	N = Without Prox P = With Prox (Std) L = With Prox (Custom)	N = SIO	N = Wiegand C = Clock-and-Data	N = Pigtail T = Terminal Strip	A	K = Black G = Gray	2 = Standard-2 E = Elite	0000 = Default
	iCLASS SE R30 & multiCLASS SE RP30 Contactless Smart Card Reader: Finished Reader, EU / Asia Square	930	N = Without Prox P = With Prox (Std) L = With Prox (Custom)	N = SIO	N = Wiegand C = Clock-and-Data	N = Pigtail T = Terminal Strip	A	K = Black G = Gray	2 = Standard-2 E = Elite	0000 = Default
	iCLASS SE R40 & multiCLASS SE RP40 Contactless Smart Card Reader: Finished Reader, Wall Switch	920	N = Without Prox P = With Prox (Std) L = With Prox (Custom)	N = SIO	N = Wiegand C = Clock-and-Data	N = Pigtail T = Terminal Strip	A	K = Black G = Gray	2 = Standard-2 E = Elite	0000 = Default
	iCLASS SE RK40 & multiCLASS SE RPK40 Contactless Smart Card Reader: Finished Reader, Wall Switch Keypad	921	N = Without Prox P = With Prox (Std) L = With Prox (Custom)	N = SIO	N = Wiegand C = Clock-and-Data	N = Pigtail T = Terminal Strip	A	K = Black G = Gray	2 = Standard-2 E = Elite	0000 = Default

<sup>1</sup> 125 kHz Prox Interpreters: Order P for standard format support = HID Prox, AWID, EM4102 and Indala (10022 – 26-bit). Order L for custom Indala format support = HID Prox, AWID, EM4102 and Indala (Custom – provide reader format number with order)

<sup>2</sup> 13.56 MHz Interpreters

N = Recommended for Maximum Security – Secure Identity Object (SIO) is default out-of-box setting that comes from HID factory that provides a maximum security data model for physical access control. Compatible ONLY with SE branded credentials.

<sup>3</sup> iCLASS Security Options (Factory or Field Configurable):

2 = Standard Security (Version 2) Keyset – coupled with the SIO (Only) 13.56 MHz interpreter provides compatibility with iCLASS SE, MIFARE Classic SE and MIFARE DESFire EV1 SE credentials.



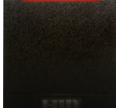


E = Elite reads only SE Elite™ credentials with unique matching keys. Works with iCLASS SE, MIFARE Classic SE and MIFARE DESFire EV1 SE with matching Elite keys. Line item on PO requires ICE reference number.

<sup>4</sup> Configuration Settings

Default configuration includes: LED normally Red + Reader beeps / flashes LED green on card read + Intelligent Power Management = Off + Keypad Output is 4-bit (if keypad reader) + (if “With Prox” aka multiCLASS) reads 125 kHz HID Prox, AWID, Indala (format 10022), EM4102. To order non-default configuration options, use the [iCLASS SE Configuration Worksheet](#).

## iCLASS SE Readers – Maximized Compatibility with Standard Interpreter

For **maximized compatibility** with added security into installations that DO contain standard iCLASS credentials. Works with iCLASS SE, iCLASS SR, standard iCLASS, SE for MIFARE Classic and SE for MIFARE DESFire EV1 credentials.

Description		Part Number								
		Base Part No.	125 kHz Prox Interpreters <sup>1</sup>	13.56 MHz Interpreters	Controller Communication	Controller Hardware Connection	Product Version	Color	Security <sup>3</sup>	Configuration Settings <sup>4</sup>
iCLASS SE™ R10 & multiCLASS SE™ RP10 Contactless Smart Card Reader: Finished Reader, Mini-Mullion		900	N = Without Prox P = With Prox (Std) L = With Prox (Custom)	T = Standard	N = Wiegand C = Clock-and-Data	N = Pigtail T = Terminal Strip	A	K = Black G = Gray	0 = Standard-1 E = Elite	0000 = Default
iCLASS SE R15 & multiCLASS SE RP15 Contactless Smart Card Reader: Finished Reader, Mullion		910	N = Without Prox P = With Prox (Std) L = With Prox (Custom)	T = Standard	N = Wiegand C = Clock-and-Data	N = Pigtail T = Terminal Strip	A	K = Black G = Gray	0 = Standard-1 E = Elite	0000 = Default
iCLASS SE R30 & multiCLASS SE RP30 Contactless Smart Card Reader: Finished Reader, EU / Asia Square		930	N = Without Prox P = With Prox (Std) L = With Prox (Custom)	T = Standard	N = Wiegand C = Clock-and-Data	N = Pigtail T = Terminal Strip	A	K = Black G = Gray	0 = Standard-1 E = Elite	0000 = Default
iCLASS SE R40 & multiCLASS SE RP40 Contactless Smart Card Reader: Finished Reader, Wall Switch		920	N = Without Prox P = With Prox (Std) L = With Prox (Custom)	T = Standard	N = Wiegand C = Clock-and-Data	N = Pigtail T = Terminal Strip	A	K = Black G = Gray	0 = Standard-1 E = Elite	0000 = Default
iCLASS SE RK40 & multiCLASS SE RPK40 Contactless Smart Card Reader: Finished Reader, Wall Switch Keypad		921	N = Without Prox P = With Prox (Std) L = With Prox (Custom)	T = Standard	N = Wiegand C = Clock-and-Data	N = Pigtail T = Terminal Strip	A	K = Black G = Gray	0 = Standard-1 E = Elite	0000 = Default

<sup>1</sup> 125 kHz Prox Interpreters: Order P for standard format support = HID Prox, AWID, EM4102 and Indala (10022 – 26-bit). Order L for custom Indala format support = HID Prox, AWID, EM4102 and Indala (Custom – provide reader format number with order)

<sup>2</sup> 13.56 MHz Interpreters

T = Recommended ONLY for Compatibility with standard iCLASS installations - Supports Secure Identity Object (SIO), standard iCLASS HID Access Control Application and MIFARE CSN. Compatible with the following credentials: iCLASS SE, iCLASS SR, standard iCLASS, SE for MIFARE Classic, SE for MIFARE DESFire EV1 and MIFARE-CSN.

<sup>3</sup> iCLASS Security Options (Factory or Field Configurable):

0 = Standard Security (Version 1) Keypad – coupled with the Standard 13.56 MHz interpreter provides compatibility with iCLASS SE, iCLASS SR, standard iCLASS, SE for MIFARE Classic and SE for MIFARE DESFire EV1 credentials.

E = Elite reads only SE Elite™ credentials with unique matching keys. Works with iCLASS SE, iCLASS SR, standard iCLASS, SE for MIFARE Classic and SE for MIFARE DESFire EV1 with matching Elite keys. Line item on PO requires ICE reference number.

<sup>4</sup> Configuration Settings

Default configuration includes LED normally Red + Reader beeps / flashes LED green on card read + Intelligent Power Management = Off + Keypad Output is 4-bit (if keypad reader) + (if “With Prox” aka multiCLASS) reads 125 kHz HID Prox, AWID, Indala (format 10022), EM4102. To order non-default configuration options, use the [iCLASS SE Configuration Worksheet](#).

## Programming Cards

For customer factory and field reader configuration, including security downgrades for standard iCLASS Access Control Application compatibility to beeper / LED settings...

### Reader Configuration

Description	Part Number							
	Base Part No.	125 kHz Interpreters <sup>1</sup>		13.56 MHz Interpreters <sup>2</sup>	Controller Communication	Product Revision	Security <sup>3</sup>	Configuration Settings <sup>4</sup>
<b>General Ordering</b>								
Reader Programming Cards – Configuration Modify reader configuration using a card.	SEC9X	XX = No Change N = Without Prox P = With Prox (Std) L = With Prox (Custom)		N = SIO T = Standard	X = No Change N = Wiegand C = Clock-and-Data	A	0 = Std 1 or 2 E = Elite	XXXX = No Change 0000 = Reset to Defaults
<b>Popular Configuration Cards</b>								
<b>Configuration Protection Prep Card</b> Prepare reader with keys synchronized with configuration cards. Use when modifying security parameters of reader (e.g. From Std to Elite)	SEC9X	X = No Change	X = No Change	X = No Change	A	P = Std to Elite Q = Elite to Elite S = Elite to Std	XXXX	
<b>Data Model Keyset Prep Card</b> Prepare reader with keys to be used by data models during access control transactions. Use when modifying security parameters of reader.	SEC9X	X = No Change	X = No Change	X = No Change	A	D = Std-1 U = Std-2 F = Elite	XXXX	
<b>Reset Beeper / LED, Keypad and IPM to Factory Defaults</b> Reset reader settings to factory defaults	SEC9X	X = No Change	X = No Change	X = No Change	A	0 = Std 1 or 2 E = Elite	0000	
<b>Security Downgrade Card</b> Add standard iCLASS Access Control Application to your iCLASS SE or multiCLASS SE reader.	SEC9X	N = Without Prox P = With Prox (Std) L = With Prox (Custom)	T = Standard	X = No Change	A	D = Chg to Std-1 E = Elite	XXXX	
<b>Security Upgrade Card</b> Setup iCLASS SE or multiCLASS SE reader for SIO (and Prox optional) Interpreters only. This is the default security setup of the reader.	SEC9X	N = Without Prox P = With Prox (Std) L = With Prox (Custom)	N = SIO	X = No Change	A	U = Chg to Std-2 E = Elite	XXXX	

<sup>1</sup> 125 kHz Prox Interpreters: Order P for standard format support = HID Prox, AWID, EM4102 and Indala (10022 – 26-bit). Order L for custom Indala format support = HID Prox, AWID, EM4102 and Indala (Custom – provide reader format number with order)

<sup>2</sup> 13.56 MHz Interpreters

N = Recommended for Maximum Security – Secure Identity Object (SIO) is default out-of-box setting that comes from HID factory that provides a maximum security data model for physical access control. Compatible ONLY with SE branded credentials.  
T = Recommended ONLY for Compatibility with standard iCLASS installations - Supports Secure Identity Object (SIO), standard iCLASS HID Access Control Application and MIFARE CSN. Compatible with both SE branded credentials, standard iCLASS credentials and MIFARE credentials (for CSN Use).

<sup>3</sup> iCLASS Security Options (Factory or Field Configurable):

0 = Protected by Standard (version 1 or version 2 keyset) configuration security keys. This setting does not change the security keyset.

E = Protected by Elite configuration security keys. Configuration card protected with these keys only work on readers keyed with matching Elite configuration. This setting does not change the security keyset. Line item on PO requires ICE reference number.

D = Protected by Standard (version 1 or version 2 keyset) configuration security keys. This setting CHANGES the security keyset to Standard Version 1. Required for compatibility with iCLASS SR and standard iCLASS credentials.

U = Protected by Standard (version 1 or version 2 keyset) configuration security keys. This setting CHANGES the security keyset to Standard Version 2. Required for compatibility with iCLASS SE credentials.

<sup>4</sup> Configuration Settings

Default configuration includes: Reads SIO on iCLASS SE, MIFARE Classic SE and DESFire EV1 SE + LED normally Red + Reader beeps / flashes LED green on card read + Intelligent Power Management = Off + Keypad Output is 4-bit (if keypad reader) + (if "With Prox" aka multiCLASS) reads 125 kHz HID Prox, AWID, Indala (ASP10022), EM4102. To order non-default configuration options, use the [iCLASS SE Configuration Worksheet](#).

## Reader Firmware

For updating firmware using cards the field...

Description	Part Number				
	Base Part No.	Hardware Modifiers	125 kHz Interpreters	13.56 Interpreters	Product Revision
<b>Programming Cards – Firmware</b>  <b>Firmware Update Cards</b> Update reader interpreters and other functionality to the latest build utilizing these firmware update cards.	SEF9	0 = Non-Keypad 1 = Keypad	N = Without Prox P = With Prox	N = Standard	ANN

## Accessories

Part No.	Description
Mounting Plates, Spacers, Screws and Accessory Kits	
6303-104-01	R10 (or equivalent sized model) Mini-Mullion Reader Mounting Plate, Any Color
6309-103-01	R15 (or equivalent sized model) Mullion Reader Mounting Plate, Any Color
6402-103-01	R30 (or equivalent sized model) EU/Asian Reader Mounting Plate, Any Color
6403-109-01	R40 (or equivalent sized model) Wall Switch Reader Mounting Plate, Any Color
6094-101-01	RK40 (or equivalent sized model) Wall Switch Keypad Reader Mounting Plate, Any Color
6132AKB	R10 (or equivalent sized model) Reader Spacer, Black
6132AGB	R10 (or equivalent sized model) Reader Spacer, Gray
6132AKC	R15 (or equivalent sized model) Reader Spacer, Black
6132AGC	R15 (or equivalent sized model) Reader Spacer, Gray
6132AKD	R30 (or equivalent sized model) Reader Spacer, Black
6132AGD	R30 (or equivalent sized model) Reader Spacer, Gray
6132AKE	R40 (or equivalent sized model) Reader Spacer, Black
6132AGE	R40 (or equivalent sized model) Reader Spacer, Gray
6132AK	RK40 (or equivalent sized model) Reader Spacer, Black
6132AG	RK40 (or equivalent sized model) Reader Spacer, Gray
400-2D71-06	Security Screw
6700-300-02	Accessory Kit (includes terminal blocks, screws, and installation guide)