Logical Access
How to Order Guide
D00538, Release E.5
September 2018

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Document History

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
<th>Version</th>
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<tr>
<td>September 2018</td>
<td>Updated Credentials section with current portfolio in production</td>
<td>E.5</td>
</tr>
<tr>
<td>March 2018</td>
<td>Removed OK3121 Jumbo Standing Base and OK5421, added OK5427CK Gen 2, updated OK5427CK Developer Toolkit, removed OMNIKEY Order Form for Standard Customization Requests.</td>
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<td>New product introduction OK5023.</td>
<td>E.1</td>
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<td>Updated OMNIKEY descriptions.</td>
<td>D.9</td>
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<td>Updated OMNIKEY Smart Readers part numbers.</td>
<td>D.8</td>
</tr>
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<td>April 2016</td>
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Overview

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

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

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

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

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

Announcement regarding Credentials Marking

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

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

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

Key benefits:

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

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

Notes:

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

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

Crescendo

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

Crescendo C1100

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

Crescendo C1150

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

iCLASS and iCLASS SE

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

Prox

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

DisplayCard Platforms

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

DisplayCard

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

Contactless DisplayCard

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

Readers

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

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

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

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

Include the following information for all orders.

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

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

iCLASS Capacity Size and Allocation

<table>
<thead>
<tr>
<th>Number</th>
<th>Bits (Bytes)</th>
<th>Application Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>2k (256)</td>
<td>2</td>
</tr>
<tr>
<td>1</td>
<td>16k (2k)</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>16k (2k)</td>
<td>16</td>
</tr>
<tr>
<td>3</td>
<td>32k (4k)</td>
<td>16k/2+16k/1</td>
</tr>
<tr>
<td>4</td>
<td>32k (4k)</td>
<td>16k/16+16k/1</td>
</tr>
</tbody>
</table>

Programming

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

Second Contactless Technology Programming

- **H** - HID Proximity (Specify Programming Information)
- **E** - EM (Fixed Sequential Programming)
- **T** - HITAG II (Programming not available)
- **D** - Indala Proximity
- **C** - Casi-Rusco Proximity (Fixed Sequential)
- **F** - MIFARE DESFire (Specify Programming)
- **M** - MIFARE (Specify Programming)

MIFARE Capacity Size

- MIFARE 1K Bytes or 4K Bytes
- MIFARE DESFire EV1 Capacity Size
  - 8K Bytes

Contact Chip and Embeddable Technology

- Crescendo
  - Crescendo C1100 - For use with HID ActivID CMS: Software version
  - Crescendo C1150 - For use with Microsoft Smart Card Base CSP and ActivIdentity ActivClient
- Embeddable - Must specify contact chip required. Consult your account manager for current availability and contact chip codes

Front Packaging

- Indicates standard or custom artwork and type of finish.

Back Packaging

- Indicates standard or custom artwork and type of finish.

iCLASS Credential Numbering

- Internal 13.56 MHz programmed number and visible external credential number.

Slot Punch

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

Custom Artwork Credential Information

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

Credential Programming Information

<table>
<thead>
<tr>
<th>Bit Format(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility Code(s)</td>
</tr>
<tr>
<td>Internal and External Start Numbers</td>
</tr>
<tr>
<td>Internal PIN Code (Length: 2 – 12 Digits)</td>
</tr>
<tr>
<td>SIO® (Secure Identity Object) or Standard Programming</td>
</tr>
<tr>
<td>Any Special Instruction</td>
</tr>
</tbody>
</table>
Cards

Contact and Dual Interface PKI Smart Cards

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

401100 - Crescendo C1100 Ordering Guide

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

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

- None - Contact only card (No physical access)
- 0 - 13.56 MHz iCLASS 32kb Only
- 2 - 13.56 MHz iCLASS 32kb Only
- 4 - 13.56 MHz MIFARE 4KB Only
- 6 - 13.56 MHz MIFARE DESFire EV1 8KB Only
- 7 - 13.56 MHz Secos 8 KB
- 3 - Standard Three Track High Coercivity Magstripe (ISO 7811-1)
- 5 - 13.6 kHz MIFARE HID
- 8 - MIFARE Classic
- 9 - MIFARE DESFire
- 10 - MIFARE EV1

Option

- M - Standard Three Track High Coercivity Magstripe (ISO 7811-1)
- S - SIM Punched card (only use “0” in the “Contactless Technology Section” in this case)

Option - Secure Identity Object Programming

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

Option - Custom Artwork

- 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 4011008M (for card with magnetic stripe and MIFARE DESFire EV1 8KB).

Final Part Number 401100 - (Options)

Configuration and Programming (required for order)

External Marking Technology
- Laser
- iCLASS Memory Size and Allocation (Check One, if applicable
- Not Applicable
- 32 Bits (4K Bytes) Application areas 16k/16/16k/1

Contactless Technology (Check One or more, if applicable)

- iCLASS Programming
- Configured, Non-Programmed
- Programmed (Specify Programming)

MIFARE Classic or MIFARE DESFire EV1 Programming

- Programmed MIFARE (Specify HID Format, MIFARE only)
- Non-Programmed
- Custom Programmed, Specify Programming Information

Prox Programming

- Non-Programmed 125 kHz Prox
- Programmed 125 kHz Prox (Specify Programming)

MIFARE Classic or MIFARE DESFire EV1 Programming

Option

- J - Multi-13.56 MHz MIFARE DESFire EV1 8KB + 125 kHz HID
- K - Multi-13.56 MHz MIFARE DESFire EV1 8KB and Prox - 125 kHz HID
- L - Multi-13.56 MHz MIFARE DESFire EV1 8KB and Prox - 125 kHz HID
- M - Multi-13.56 MHz MIFARE DESFire EV1 8KB and Prox - 125 kHz HID
- N - Multi-13.56 MHz MIFARE DESFire EV1 8KB and Prox - 125 kHz HID
- O - Multi-13.56 MHz MIFARE DESFire EV1 8KB and Prox - 125 kHz HID

Programming Information

<table>
<thead>
<tr>
<th>iCLASS / Seos</th>
<th>MIFARE Classic or DESFire</th>
<th>125 kHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Format (i.e. H10301)</td>
<td>Format (i.e. H10301)</td>
<td>Format (i.e. H10301)</td>
</tr>
<tr>
<td>Facility / Site Code</td>
<td>Facility / Site Code</td>
<td>Facility / Site Code</td>
</tr>
<tr>
<td>Additional Field Data</td>
<td>Additional Field Data</td>
<td>Additional Field Data</td>
</tr>
<tr>
<td>Internal Card No. Start</td>
<td>Internal Card No. Start</td>
<td>Internal Card No. Start</td>
</tr>
<tr>
<td>External Card No.</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>Random</td>
<td>Random</td>
</tr>
<tr>
<td></td>
<td>Matching</td>
<td>Non-Matching</td>
</tr>
<tr>
<td></td>
<td>(not matching)</td>
<td></td>
</tr>
<tr>
<td>External Start No.</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>Random</td>
<td>Random</td>
</tr>
<tr>
<td></td>
<td>Matching</td>
<td>Non-Matching</td>
</tr>
<tr>
<td></td>
<td>(not matching)</td>
<td></td>
</tr>
<tr>
<td>Optional PIN:</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>Sequential: Start #</td>
<td>Sequential: Start #</td>
</tr>
<tr>
<td></td>
<td>Optional: Length</td>
<td>Optional: Length</td>
</tr>
<tr>
<td>Optional Elite Key</td>
<td>ICE #</td>
<td>ICE #</td>
</tr>
<tr>
<td></td>
<td>Optional Elite Key Only</td>
<td>ICE #</td>
</tr>
</tbody>
</table>

For information about ActivID CMS, visit https://www.hidglobal.com/products/Cards-and-Credentials/Crescendo

1. Non-programmed cards require field programming capability. Various solutions are available to securely program credentials.
2. Any programming requiring custom keys or non-standard memory locations.
3. The Manufacturing Legend is required on all cards.
4. External Card Marking is used to trace manufacturing lots and provide readable serialization.
5. Contact Customer Service for custom artwork number, lead times, and cost.
6. Though most formats require two fields (site code and card number), use this area for additional values if required by the format.
7. All Crescendo cards are laser marked

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401150 - Crescendo C1150 Ordering Guide

Base Model: ☑ 401150 -- Crescendo C1150 – for Microsoft CryptoAPI and PKCS#11 using ActivClient

Order minimum quantities of 25.

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

- 0 - None - Contact only card (No physical access)
- 1 - 13.56 MHz iCLASS 32kb Only
- 2 - 13.56 MHz iCLASS 32kb + 125 kHz Prox (HID, Indala, or Casi)
- 3 - 13.56 MHz MIFARE 4KB Only
- 4 - 13.56 MHz MIFARE 4KB + 125 kHz Prox (HID, Indala, or Casi)
- 5 - 13.56 MHz MIFARE DESFire EV1 8KB Only
- 6 - 13.56 MHz MIFARE DESFire EV1 8KB + 125 kHz HID
- Y - 13.56 MHz Sesos 8 KB

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

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

Option – Custom Artwork4
(Specify Artwork Number – Refer to the Custom Artwork Forms for new artwork)

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

Final Part Number 401150 - (Options)

Configuration and Programming (required for order)

External Marking Technology
- Laser4
- 52k Bits (4K Bytes) Application areas 16k/16+16k/1

Contactless Technology (Check One or more, if applicable)
- iCLASS Programming
  - Configured, Non-Programmed2
  - Programmed (Specify Programming)
- MIFARE Classic or MIFARE DESFire EV1 Programming
  - Programmed MIFARE (Specify HID Format. MIFARE only)
  - Non-Programmed2
  - Custom Programmed, Specify Programming Information3

Note: LEGIC interface is not programmed in this version.

Prox Programming
- Non-Programmed2 125 kHz Prox
- Programmed 125 kHz Prox. (Specify Programming)

Programming Information

<table>
<thead>
<tr>
<th>iCLASS / Sesos</th>
<th>MIFARE Classic or DESFire</th>
<th>125 kHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Format (i.e. H10301)</td>
<td>Format (i.e. H10301)</td>
<td>Format (i.e. H10301)</td>
</tr>
<tr>
<td>Facility / Site Code</td>
<td>Facility / Site Code</td>
<td>Facility / Site Code</td>
</tr>
<tr>
<td>Additional Field Data7</td>
<td>Additional Field Data7</td>
<td>Additional Field Data7</td>
</tr>
<tr>
<td>Internal Card No. Start</td>
<td>Internal Card No. Start</td>
<td>Internal Card No. Start</td>
</tr>
<tr>
<td>Internal Card No. Start</td>
<td>Internal Card No. Start</td>
<td>Internal Card No. Start</td>
</tr>
<tr>
<td>Optional PIN:</td>
<td>Optional PIN:</td>
<td>Optional PIN:</td>
</tr>
<tr>
<td>Optional Elite Key:</td>
<td>Optional Elite Key:</td>
<td>Optional Elite Key:</td>
</tr>
</tbody>
</table>

For information about ActivClient, visit www.hidglobal.com/products/Cards-and-Credentials/Crescendo.

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

3 Any programming requiring custom keys or non-standard memory locations.

4 The Manufacturing Legend is required on all cards.

5 The Manufacturing Legend is required on all cards.

6 External Card Marking is used to trace manufacturing lots and provide readable serialization.

7 Contact Customer Service for custom artwork number, lead times, and cost.

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

9 All Crescendo cards are laser marked

For information about Crescendo, visit www.hidglobal.com/products/Cards-...
401300 - Crescendo C1300 Ordering Guide

Base Model: 401300x – Crescendo C1300 – Dual Interface card for Windows minidriver, ActivClient or ActivID CMS 4.3 or newer

Order minimum quantities of 25.

Option x – Custom Artwork

- B – Blank card glossy finish front and back
- M – Standard Three Track High Coercivity Magstripe (ISO 7811-6)
- C – ______________________ (Specify Artwork Number – Refer to the Custom Artwork Forms for new artwork)

From the above options, enter your final card options. Examples: 4011500 (for card without magnetic stripe and no physical access technology) or 4011508M (for card with magnetic stripe and MIFARE DESFire EV1 8KB).

Final Part Number 401300 - - (Options)

Configuration and Programming (required for order)

External Marking Technology

- Laser

1 For information about ActivClient, visit www.hidglobal.com/products/Cards-and-Credentials/Crescendo.
2 Contact Customer Service for custom artwork number, lead times, and cost.
3 All Crescendo cards are laser marked.
4 The Manufacturing Legend is required on all cards.
5 External Card Marking is used to trace manufacturing lots and provide readable serialization.
# 400xxx-D14 – Crescendo FIPS / PIV Ordering Guide

**Base Model:** 400xyz-D14 – Crescendo FIPS and PIV, for FIPS 140-2 compliant deployments

Order minimum quantities of 25.

### Option x – First Contactless Technology

- 0 - None - Contact only card (No physical access)
- 2 - 13.56 MHz iCLASS 32 kb
- 3 - Dual Interface PVC card
- 4 - 13.56 MHz MIFARE 4 kB
- 6 - 13.56 MHz MIFARE DESFire EV1 8 kB
- 8 - 13.56 MHz Seos 8 kB

### Option y – Second Contactless Technology

- 0 - None (Mandatory when 0 or 3 is the first contactless technology)
- 1 - 125 KHz Prox (HID, Indala)
- 21 - iCLASS 32 kb + 125 KHz Prox (Only with Seos as first technology)

### Option z – Front and Back Artwork

- B – Blank card glossy finish front and back
- M – Standard Three Track High Coercivity Magstripe (Mandatory on PVC cards)
- S – SIM Punched card (only use “0” in the “Contactless Technology Section” in this case)
- C – Specify Artwork Number (Refer to the Custom Artwork Forms for new artwork)

From the above options, enter your final card options. Examples:

- 40000C-D14-A005555 CRESCENDO FIPS CONTACT ONLY CUSTOM ARTWORK
- 400821B-D14 CRESCENDO FIPS SEOS ICLASS PROX BLANK
- 40030M-D14 CRESCENDO PIV DUAL INTERFACE BLANK WITH MAGSTRIPE

### Configuration and Programming (required for order)

**External Marking Technology**

- Laser
- iCLASS / SEOS / Prox Programming
- MIFARE Classic or MIFARE DESFire EV1 Programming
- Programmed MIFARE (Specify HID Format, MIFARE only)
- Non-Programmed

**Programming Information**

Contact Chip: MANDATORY PROGRAMMING INFORMATION

<table>
<thead>
<tr>
<th>Format (i.e. H10301)</th>
<th>Format (i.e. H10301)</th>
<th>Format (i.e. H10301)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility / Site Code</td>
<td>Facility / Site Code</td>
<td>Facility / Site Code</td>
</tr>
<tr>
<td>Additional Field Data</td>
<td>Additional Field Data</td>
<td>Additional Field Data</td>
</tr>
<tr>
<td>Internal Card No. Start</td>
<td>Internal Card No. Start</td>
<td>Internal Card No. Start</td>
</tr>
<tr>
<td>Optional PIN:</td>
<td>Optional PIN:</td>
<td>Optional PIN:</td>
</tr>
<tr>
<td>Optional Elite Key:</td>
<td>Optional Elite Key:</td>
<td>Optional Elite Key:</td>
</tr>
</tbody>
</table>

**ICE #**

- HID
- Indala
- Casi Compatible

An ASSA ABLOY Group program

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## 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® (Identified on Ink jet Markings) Specify Programming Information.
- **N**: Non-Programmed, Low Frequency (125 kHz). Programming Information Not Required.

### Front Packaging (Check One)

- **G**: Plain White with Gloss Finish
- **C**: Custom Artwork with Gloss Finish – Specify Custom Artwork Number

### Back Packaging (Check One)

- **G**: Plain White PVC with Gloss Finish
- **S**: Standard Smart ISOProx II Artwork (shown)
- **C**: Custom Artwork with Gloss Finish – Specify Custom Artwork Number

### Card Numbering (Check One)

- **M**: Sequential Matching Internal/External (Inkjetted)
- **N**: No External Card Numbering
- **R**: Random Internal/Non-Matching Sequential External (Inkjetted)
- **A**: Sequential Matching Internal/External (Engraved)
- **B**: Sequential Internal/Sequential Non-Matching External (Engraved)
- **C**: Random Internal/Non-Matching Sequential External (Engraved)

### Slot Punch (Check One)

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

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

### Option - Custom Artwork

- Specify Artwork Number – Refer to the Custom Artwork Forms for new Artwork

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

<table>
<thead>
<tr>
<th>Final Part Number</th>
<th>1597</th>
<th>-</th>
<th>(Options #)</th>
</tr>
</thead>
</table>

### 125 kHz Card Programming Information

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

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

1. For new artwork files, contact Customer Service for custom artwork number, lead times and cost.
2. Cards ordered with plain white front and back packaging, with no HID artwork or with custom artwork, will still have a small HID logo and reference number printed in the lower left-hand corner and a slot punch target printed on the back of the card.
3. The external card number is placed in the bottom right-hand corner on the back of the card.
4. Cards 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.

- **Programmed as a sequential 12 digit number.**
- **please note that cards shipped out of North America are always laser-engraved. Inkjetted option is not available for these cards.**
- **the composite construction is recommended for all cards that will have an over-laminate applied.**
**Base Model** 1598 Composite 40% Polyester / PVC*

<table>
<thead>
<tr>
<th>Programming (Check One)</th>
</tr>
</thead>
<tbody>
<tr>
<td>L - Programmed, Low Frequency (125 kHz). Specify Programming Information.</td>
</tr>
<tr>
<td>C - Programmed, Low Frequency (125 kHz) Casi-Rusco. (Identified on Inkjet Markings) Specify Programming Information.</td>
</tr>
<tr>
<td>N - Non-Programmed, Low Frequency (125 kHz). Programming Information Not Required.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Front Packaging (Check One)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G - Plain White with Gloss Finish</td>
</tr>
<tr>
<td>C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number¹</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Back Packaging (Check One)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G - Plain White PVC with Gloss Finish²</td>
</tr>
<tr>
<td>S - Standard Smart DuoProx II Artwork (shown)³</td>
</tr>
<tr>
<td>C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number¹ ²</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Card Numbering² (Check One)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M - Sequential Matching Internal/External (Inkjetted)⁵</td>
</tr>
<tr>
<td>N - No External Card Numbering</td>
</tr>
<tr>
<td>S - Sequential Internal/Sequential Non-Matching External (Inkjetted)⁶</td>
</tr>
<tr>
<td>R - Random Internal/Non-Matching Sequential External (Inkjetted)³</td>
</tr>
<tr>
<td>A - Sequential Matching Internal/External (Engraved)⁴</td>
</tr>
<tr>
<td>B - Sequential Internal/Sequential Non-Matching External (Engraved)⁴</td>
</tr>
<tr>
<td>C - Random Internal/Non-Matching Sequential External (Engraved)⁴</td>
</tr>
</tbody>
</table>

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

**Slot Punch (Check One)**

<table>
<thead>
<tr>
<th>Slot Punch (Check One)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N - No Slot Punch (Printed location of vertical slot punch will remain)</td>
</tr>
<tr>
<td>V - Vertical Slot Punch</td>
</tr>
</tbody>
</table>

**Optional Custom Artwork¹ (Specify Artwork Number – Refer to the Custom Artwork Forms for new Artwork)**

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

<table>
<thead>
<tr>
<th>Final Part Number</th>
<th>1598</th>
<th>-</th>
<th>(Optional Artwork #)</th>
</tr>
</thead>
</table>

**125 kHz Card Programming Information**

<table>
<thead>
<tr>
<th>Bit Numbers</th>
<th>(example: 26 bit)</th>
<th>Format Number</th>
<th>(example: H10301)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility Code</td>
<td>(Custom Formats) Site Code</td>
<td>City Code</td>
<td>OEM Code</td>
</tr>
<tr>
<td>Internal Card No. Start</td>
<td>Stop</td>
<td></td>
<td></td>
</tr>
<tr>
<td>External Card No. Start</td>
<td>Stop</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Special Instructions:

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

- For new artwork files, contact Customer Service for custom artwork number, lead times and cost.
- 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.
- The external card number is placed in the lower left-hand corner on the back of the card.
- For Laser Engraved external numbers, consult factory for lead times and cost.
- 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.
- Please note that cards shipped out of North America are always laser-engraved. Inkjetted option is not available for these cards.
- The composite construction is recommended for all cards that will have an over-laminate applied.
211 - iCLASS Embeddable Card Ordering Guide

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

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

Base Model 211 Composite 40% Polyester / PVC *

<table>
<thead>
<tr>
<th>iCLASS Memory Size and Allocation (Check One)</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ 0 - 2k Bits (256 Bytes) with 2 Application Areas</td>
</tr>
<tr>
<td>☐ 1 - 16k Bits (2k Bytes) with 2 Application Areas</td>
</tr>
<tr>
<td>☐ 2 - 16k Bits (2k Bytes) with 16 Application Areas</td>
</tr>
<tr>
<td>☐ 3 - 32k Bits (4K Bytes) Application areas 16k+2+16k/1</td>
</tr>
<tr>
<td>☐ 4 - 32k Bits (4K Bytes) Application areas 16k+16k/1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Programming (Check One)</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ C - Configured, Non-Programmed iCLASS. Programming Information Not Required.</td>
</tr>
<tr>
<td>☐ P - Programmed iCLASS. Specify Programming Information.</td>
</tr>
</tbody>
</table>

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

| Back Packaging (Check One) |
|---------------------------|---|
| ☐ G - Plain White with Gloss Finish² |
| ☐ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number¹ |
| ☐ 1 - Plain White with Gloss Finish with Magnetic Stripe² |
| ☐ 3 - Custom Artwork with Gloss Finish with Magnetic Stripe - Specify Custom Artwork Number¹ |

| Card Numbering² (Check One) |
|-----------------------------|---|
| ☐ M - Sequential Matching Internal/External (Inkjetted)⁶ |
| ☐ O - Sequential External only (Inkjetted)⁶ |
| ☐ N - No External Card Numbering |
| ☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted)⁶ |
| ☐ R - Random Internal/Non-Matching Sequential External (Inkjetted)⁴ |
| ☐ A - Sequential Matching Internal/External (Laser Engraved)⁴ |
| ☐ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)⁴ |
| ☐ C - Random Internal/Non-Matching Sequential External (Laser Engraved)⁴ |

| Slot Punch¹ (Check One) |
|------------------------|---|
| ☐ N - No Slot Punch (Printed location of vertical slot punch will remain) |
| ☐ V - Vertical Slot Punch |

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

Option - Custom Artwork¹ (Specify Artwork Number – Refer to the Custom Artwork Forms for new Artwork)

---

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

<table>
<thead>
<tr>
<th>Final Part Number</th>
<th>211</th>
<th>-</th>
<th>(Options #)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>iCLASS Card Programming Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bit Numbers (example: 26 bit) Format Number (example: H10301)</td>
</tr>
<tr>
<td>Facility Code</td>
</tr>
<tr>
<td>(Custom Formats) Site Code City Code OEM Code</td>
</tr>
<tr>
<td>Internal Card # Start Stop External Card # Start Stop</td>
</tr>
<tr>
<td>PIN (2-12 digits): Sequential: Start # Random: Length</td>
</tr>
</tbody>
</table>

Special Instructions:

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

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

* The composite construction is recommended for all cards with over-laminate applied. Consult with the printer manufacturer prior to ordering.
213 - Combination (iCLASS + Prox) Embeddable Ordering Guide

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

<table>
<thead>
<tr>
<th>Base Model</th>
<th>213 Composite 40% Polyester / PVC</th>
</tr>
</thead>
<tbody>
<tr>
<td>iCLASS Memory Size and Allocation (Check One)</td>
<td></td>
</tr>
<tr>
<td>□ 0 - 2k Bits (256 Bytes) with 2 Application Areas</td>
<td>□ 3 - 32k Bits (4K Bytes) Application areas 16k/4+16k/4</td>
</tr>
<tr>
<td>□ 1 - 10k Bits (2k Bytes) with 2 Application Areas</td>
<td>□ 4 - 32k Bits (4K Bytes) Application areas 16k/4+16k/4</td>
</tr>
<tr>
<td>□ 2 - 10k Bits (2k Bytes) with 16 Application Areas</td>
<td></td>
</tr>
</tbody>
</table>

**Programming (Check One)**

□ C - Configured, Non-Programmed iCLASS and 125 kHz Prox, Programming Information Not Required.
□ A - Configured, Non-Programmed iCLASS, 125 kHz Prox, Specify Programming Information.
□ P - Programmed iCLASS only, Specify Programming Information.
□ B - Programmed 125 kHz Prox and iCLASS, Specify Programming Information.

**Front Packaging (Check One)**

□ G - Plain White with Gloss Finish
□ C - Custom Artwork/Contact Module with Gloss Finish – Specify Custom Artwork/Contact Module Number^1

**Back Packaging (Check One)**

□ G - Plain White with Gloss Finish^2
□ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number^2
□ 1 - Plain White with Gloss Finish with Magnetic Stripe^2
□ 3 - Custom Artwork with Gloss Finish with Magnetic Stripe - Specify Custom Artwork Number^1

**iCLASS Card Numbering^1 (Check One)**

□ M - Sequential Matching Internal/External (Inkjetted)
□ O - Sequential External only (Inkjetted)
□ N - No External Card Numbering
□ B - Sequential Internal/Sequential Non-Matching External (Inkjetted)
□ R - Random Internal/Non-Matching Sequential External (Inkjetted)
□ A - Sequential Matching Internal/External (Laser Engraved)^4
□ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)^4
□ C - Random Internal/Non-Matching Sequential External (Laser Engraved)^4

**Slot Punch^1 (Check One)**

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

**125 kHz Card Numbering^1 (Check One)**

□ M - Sequential Matching Internal/External (Inkjetted)^5
□ O - Sequential External only (Inkjetted) ^5
□ N - No External Card Numbering
□ B - Sequential Internal/Sequential Non-Matching External (Inkjetted)^5
□ R - Random Internal/Non-Matching Sequential External (Inkjetted)^5
□ A - Sequential Matching Internal/External (Laser Engraved)^4
□ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)^4

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

**Option - Custom Artwork^2 (Specify Artwork Number – Refer to the Custom Artwork Forms for new Artwork)**

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

<table>
<thead>
<tr>
<th>Final Part Number</th>
<th>213</th>
<th>- (Options #)</th>
</tr>
</thead>
<tbody>
<tr>
<td>iCLASS Programming Information</td>
<td>125 kHz Programming Information</td>
<td></td>
</tr>
<tr>
<td>Bit Numbers</td>
<td>(example: 26 bit)</td>
<td>Bit Numbers</td>
</tr>
<tr>
<td>Format Number</td>
<td>(example: H10301)</td>
<td>Format Number</td>
</tr>
<tr>
<td>Facility Code</td>
<td></td>
<td>Facility Code</td>
</tr>
<tr>
<td>(Custom Formats) Site Code</td>
<td>City Code</td>
<td>(Custom Formats) Site Code</td>
</tr>
<tr>
<td>OEM Code</td>
<td></td>
<td>OEM Code</td>
</tr>
<tr>
<td>Internal Card No. Start</td>
<td>Stop</td>
<td>Internal Card No. Start</td>
</tr>
<tr>
<td>External Card No. Start</td>
<td>Stop</td>
<td>External Card No. Start</td>
</tr>
<tr>
<td>PIN: □ Sequential: Start</td>
<td>□ Random: Length</td>
<td>Special Instructions:</td>
</tr>
</tbody>
</table>

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

^1 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.

^2 The external card number is placed in the bottom right-hand corner for iCLASS 13.56 MHz and in bottom center for 125 kHz Prox on the back of the card.

^3 For Laser Engraved external numbers, consult factory for lead times and cost.

^4 Cards are provided with an optional slot punch at no additional charge. Some video imaging printers cannot accommodate pre-slot punched cards.

^5 Please note that cards shipped out of North America are always laser-engraved. Inkjetted option is not available for these cards.

^6 The composite construction is recommended for all cards with over-laminate applied. Consult with the printer manufacturer prior to ordering.

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September 2018
**243 - Combination Dual HF (iCLASS / Other HF) Embeddable Ordering Guide**

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

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

**Base Model**  
243 Composite 40% Polyester / PVC *

<table>
<thead>
<tr>
<th>iCLASS Memory Size and Allocation (Check One)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="2-2 bits (256 bytes) with 2 Application Areas (only available with MIFARE CLASSIC 1K)" /></td>
<td></td>
</tr>
<tr>
<td><img src="image2" alt="3-32 bits (4K bytes) Application Area 16K/2+16K/1" /></td>
<td></td>
</tr>
<tr>
<td><img src="image3" alt="4-32 bits (4K bytes) Application Area 16K/16K/1" /></td>
<td></td>
</tr>
</tbody>
</table>

**Card Programming (Check One)**

- ![B - Programmed iCLASS & 2nd Technology. Specify Programming Information.](image4)
- ![P - Programmed iCLASS only not 2nd Technology. Specify Programming Information.](image5)
- ![G - Configured, Non-Programmed iCLASS. Non-programmed 2nd Technology. Programming Information Not Required.](image6)
- ![A - Configured, Non-Programmed iCLASS, Programmed 2nd Technology. Specify Programming Information.](image7)

**2nd High Frequency Technology (Check One)**

- ![M - MIFARE Classic 1K Bytes (only available with iCLASS 2k bits)](image8)
- ![N - MIFARE 4K Bytes](image9)
- ![K - MIFARE DESFire EV1 8K Bytes](image10)

**Front Packaging (Check One)**

- ![G - Plain White with Gloss Finish](image11)
- ![C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number](image12)

**Back Packaging (Check One)**

- ![G - Plain White with Gloss Finish](image13)
- ![C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number](image14)
- ![1 - Plain White with Gloss Finish with Magnetic Stripe](image15)
- ![3 - Custom Artwork with Gloss Finish with Magnetic Stripe - Specify Custom Artwork Number](image16)

**iCLASS Card Numbering1 (Check One)**

- ![M - Sequential Matching Internal/External (Inkjetted)](image17)
- ![N - No External Card Numbering](image18)
- ![S - Sequential Internal/Sequential Non-Matching External (Inkjetted) 3](image19)
- ![R - Random Internal/Non-Matching Sequential External (Inkjetted) 5](image20)
- ![A - Sequential Matching Internal/External (Laser Engraved) 6](image21)
- ![B - Sequential Internal/Sequential Non-Matching External (Laser Engraved) 6](image22)
- ![G - Random Internal/Non-Matching Sequential External (Laser Engraved) 6](image23)

**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](image24)

**2nd High Frequency Technology Card Numbering2 (Check One)**

- ![M - Sequential Matching Internal/External (Inkjetted)](image25)
- ![N - No External Card Numbering](image26)
- ![S - Sequential Internal/Sequential Non-Matching External (Inkjetted)](image27)
- ![R - Random Internal/Non-Matching Sequential External (Inkjetted)](image28)

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

**Option - Custom Artwork**

- ![Specify Custom Artwork Number – Refer to the Custom Artwork Forms for new artwork](image29)

Enter your final card options from the above selections. Example: 243PNGGNNN

<table>
<thead>
<tr>
<th>Final Part Number</th>
<th>243</th>
<th>N</th>
<th>-</th>
<th>(Options #)</th>
</tr>
</thead>
</table>

**iCLASS Programming Information**

<table>
<thead>
<tr>
<th>Bit Numbers</th>
<th>(example: 26 bit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Format Number</td>
<td>(example: H10301)</td>
</tr>
</tbody>
</table>

**2nd 13.56 MHz Programming Information**

<table>
<thead>
<tr>
<th>Bit Numbers</th>
<th>(example: 26 bit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Format Number</td>
<td>(example: H10301)</td>
</tr>
</tbody>
</table>

**Facility Code**

<table>
<thead>
<tr>
<th>iCLASS Elite ICE Number (if applicable)</th>
<th></th>
</tr>
</thead>
</table>

**Custom Formats/ Site Code | City Code |  |
|---------------------------|--|---|

**OEM Code**

<table>
<thead>
<tr>
<th>Internal Card No. Start</th>
<th>Stop</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>External Card No. Start</td>
<td>Stop</td>
<td></td>
</tr>
</tbody>
</table>

**PIN:**  
- Sequential: Start #  
- Random: Length

---

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

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

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

Base Model  X  263 Composite 40% Polyester / PVC *

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

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

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

3rd Low Frequency Technology
- P - HID Prox

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

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

iCLASS Card Numbering† (Check One)
- M - Sequential Matching Internal/Internal (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/Internal (Laser Engraved)
- B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)
- C - Random Internal/Non-Matching Sequential External (Laser Engraved)

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

2nd High Frequency Technology Card Numbering† (Check One)
- M - Sequential Matching Internal/Internal (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/Internal (Laser Engraved)
- B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)
- C - Random Internal/Non-Matching Sequential External (Laser Engraved)

3rd Low Frequency Technology Card Numbering† (Check One)
- M - Sequential Matching Internal/Internal (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/Internal (Laser Engraved)
- B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)
- C - Random Internal/Non-Matching Sequential External (Laser Engraved)

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

Option - Custom Artwork†
- (Specify Artwork Number – Refer to the Custom Artwork Forms for new artwork)

Enter your final card options from the above selections. Example: 2634TNPGGSNNN
### iCLASS 13.56 MHz Programming Information

<table>
<thead>
<tr>
<th>Bit Numbers (example: 26 bit)</th>
<th>Format Number (example: H10301)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility Code</td>
<td></td>
</tr>
<tr>
<td>iCLASS Elite ICE Number (if applicable)</td>
<td></td>
</tr>
<tr>
<td>(Custom Formats) Site Code</td>
<td>City Code</td>
</tr>
<tr>
<td>OEM Code</td>
<td></td>
</tr>
<tr>
<td>Internal Card No. Start Stop</td>
<td></td>
</tr>
<tr>
<td>External Card No. Start Stop</td>
<td></td>
</tr>
<tr>
<td>PIN: Square: Start # Random: Length</td>
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</tbody>
</table>

### 2nd 13.56 MHz Programming Information

<table>
<thead>
<tr>
<th>Bit Numbers (example: 26 bit)</th>
<th>Format Number (example: H10301)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility Code</td>
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<tr>
<td>iCLASS Elite ICE Number (if applicable)</td>
<td></td>
</tr>
<tr>
<td>(Custom Formats) Site Code</td>
<td>City Code</td>
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<td>OEM Code</td>
<td></td>
</tr>
<tr>
<td>Internal Card No. Start Stop</td>
<td></td>
</tr>
<tr>
<td>External Card No. Start Stop</td>
<td></td>
</tr>
<tr>
<td>Special Instructions:</td>
<td></td>
</tr>
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</table>

### 125 kHz Card Programming Information

<table>
<thead>
<tr>
<th>Bit Numbers (example: 26 bit)</th>
<th>Format Number (example: H10301)</th>
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<tr>
<td>(Custom Formats) Site Code</td>
<td>City Code</td>
</tr>
<tr>
<td>OEM Code</td>
<td></td>
</tr>
<tr>
<td>Internal Card No. Start Stop</td>
<td></td>
</tr>
<tr>
<td>External Card No. Start Stop</td>
<td></td>
</tr>
<tr>
<td>Special Instructions:</td>
<td></td>
</tr>
</tbody>
</table>

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

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

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

Base Model □ 283 Composite 40% Polyester / PVC *

MIFARE High Frequency Technology
□ N - MIFARE 4K Bytes

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

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

Front Packaging (Check One)
□ G - Plain White with Gloss Finish
□ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number*

Back Packaging (Check One)
□ G - Plain White with Gloss Finish*
□ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number*
□ 1 - Plain White with Gloss Finish with Magnetic Stripe
□ 3 - Custom Artwork with Gloss Finish with Magnetic Stripe - Specify Custom Artwork Number*

MIFARE High Frequency Card Numbering† (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)*
□ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)*
□ C - Random Internal/Non-Matching Sequential External (Laser Engraved)*

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

MIFARE DESFire High Frequency Technology Card Numbering† (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)*
□ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)*
□ C - Random Internal/Non-Matching Sequential External (Laser Engraved)*

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

Option - Custom Artwork-shirts Artwork Number – Refer to the Custom Artwork Forms for new artwork

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

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

MIFARE 13.56 MHz Programming Information

| Bit Numbers | Format Number | Facility Code | (Custom Formats) Site Code | City Code | OEM Code | Internal Card No. Start | Stop | External Card No. Start | Stop | Special Instructions:
|-------------|---------------|---------------|---------------------------|----------|----------|------------------------|------|------------------------|------|-----------------------|
| 1 For new artwork files, contact Customer Service for custom artwork number, lead times, and cost.  
2 Cards ordered with plain white front and back packaging, or custom artwork, will have a small HID logo (example: H10301) in the bottom right corner and a slot punch target printed on the back of the card.  
3 The external card number on the card back is placed in the bottom right corner for MIFARE 13.56 MHz and in the bottom center for MIFARE DESFire.  
4 For Laser Engraved external numbers, consult factory for lead times and cost.  
5 Cards are provided with an optional slot punch at no additional charge. Some video imaging printers cannot accommodate pre-slot punched cards.  
6 Please note that cards shipped out of North America are always laser-engraved. Inkjetted option is not available for these cards.  
7 * The composite construction is recommended for all cards with over-laminate applied. Consult with the printer manufacturer prior to ordering.  
8 For Laser Engraved external numbers, consult factory for lead times and cost.  
9 Cards ordered with plain white front and back packaging, or custom artwork, will have a small HID logo in the bottom right corner and a slot punch target printed on the back of the card.  
10 Cards ordered with plain white front and back packaging, or custom artwork, will have a small HID logo in the bottom right corner and a slot punch target printed on the back of the card.  
11 Cards ordered with plain white front and back packaging, or custom artwork, will have a small HID logo in the bottom right corner and a slot punch target printed on the back of the card.  
12 Cards ordered with plain white front and back packaging, or custom artwork, will have a small HID logo in the bottom right corner and a slot punch target printed on the back of the card.  
13 Cards ordered with plain white front and back packaging, or custom artwork, will have a small HID logo in the bottom right corner and a slot punch target printed on the back of the card.  
14 Cards ordered with plain white front and back packaging, or custom artwork, will have a small HID logo in the bottom right corner and a slot punch target printed on the back of the card.  
15 Cards ordered with plain white front and back packaging, or custom artwork, will have a small HID logo in the bottom right corner and a slot punch target printed on the back of the card.  
16 Cards ordered with plain white front and back packaging, or custom artwork, will have a small HID logo in the bottom right corner and a slot punch target printed on the back of the card.  
17 Cards ordered with plain white front and back packaging, or custom artwork, will have a small HID logo in the bottom right corner and a slot punch target printed on the back of the card.  
18 Cards ordered with plain white front and back packaging, or custom artwork, will have a small HID logo in the bottom right corner and a slot punch target printed on the back of the card.  
19 Cards ordered with plain white front and back packaging, or custom artwork, will have a small HID logo in the bottom right corner and a slot punch target printed on the back of the card.  
20 Cards ordered with plain white front and back packaging, or custom artwork, will have a small HID logo in the bottom right corner and a slot punch target printed on the back of the card.  
21 Cards ordered with plain white front and back packaging, or custom artwork, will have a small HID logo in the bottom right corner and a slot punch target printed on the back of the card.  
22 Cards ordered with plain white front and back packaging, or custom artwork, will have a small HID logo in the bottom right corner and a slot punch target printed on the back of the card.
301 - iCLASS SE Card Ordering Guide

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

Base Model

☐ 301 Composite 40% Polyester / PVC

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

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

**Front Packaging (Check One)**
- ☑ G - Plain White with Gloss Finish
- ☑ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number

**Back Packaging (Check One)**
- ☑ G - Plain White with Gloss Finish
- ☑ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number
- ☑ 1 - Plain White with Gloss Finish with Magnetic Stripe
- ☑ 3 - Custom Artwork with Gloss Finish with Magnetic Stripe - Specify Custom Artwork Number

**Card Numbering**
- ☑ 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)
- ☑ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)
- ☑ C - Random Internal/Non-Matching Sequential External (Laser Engraved)

**Slot Punch**
- ☑ N - No Slot Punch (Printed location of vertical slot punch will remain)
- ☑ V - Vertical Slot Punch
- ☑ B - No Slot Punch - Horizontal Punch compatible
- ☑ H - Horizontal Slot Punch

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

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

<table>
<thead>
<tr>
<th>Final Part Number</th>
<th>P</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th>(Options #)</th>
</tr>
</thead>
</table>

iCLASS Card Programming Information

<table>
<thead>
<tr>
<th>Bit Numbers</th>
<th>Format Number</th>
<th>Facility Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>(example: 26 bit)</td>
<td>(example: H10301)</td>
<td></td>
</tr>
</tbody>
</table>

SE Elite ICE Number (if applicable) - 

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

Internal Card # Start - Stop - External Card # Start - Stop - 

Special Instructions: - 

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

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

**Base Model**

- **311 Composite 40% Polyester / PVC**

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

- 0 - 2k Bits (256Bytes) with 2 Application Areas
- 1 - 16k Bits (2k Bytes) with 2 Application Areas
- 2 - 16k Bits (2k Bytes) with 16 Application Areas
- 3 - 32k Bits (4k Bytes) Application areas 16k/2+16k/1
- 4 - 32k Bits (4k Bytes) Application areas 16k/16+16k/1

### Secure Identity Object Programming (Check One)

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

### Secure Identity Object Programming (Check One)

- G - Plain White with Gloss Finish
- C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number

### Secure Identity Object Programming (Check One)

- G - Plain White with Gloss Finish
- C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number

### Secure Identity Object Programming (Check One)

- G - Plain White with Gloss Finish
- C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number

### Secure Identity Object Programming (Check One)

- G - Plain White with Gloss Finish
- C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number

### 13.56 MHz iCLASS Card Numbering (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)
- B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)
- C - Random Internal/Non-Matching Sequential External (Laser Engraved)

### 125 kHz Card Numbering (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)
- B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)
- C - Random Internal/Non-Matching Sequential External (Laser Engraved)

### Option - Custom Artwork

- Specify Custom Artwork Number – Refer to the Custom Artwork Forms for new artwork

---

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

<table>
<thead>
<tr>
<th>Final Part Number</th>
<th>P</th>
<th>-</th>
<th>(Options #)</th>
</tr>
</thead>
</table>

### iCLASS Card Programming Information

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

<table>
<thead>
<tr>
<th>Bit Numbers</th>
<th>Format Number</th>
<th>Facility Code</th>
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</thead>
<tbody>
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<td>(example: 26 bit)</td>
<td>(example: H10301)</td>
<td></td>
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<td>(Custom Formats) Site Code</td>
<td>City Code</td>
<td>OEM Code</td>
</tr>
<tr>
<td>Internal Card No.</td>
<td>Start</td>
<td>Stop</td>
</tr>
<tr>
<td>External Card No.</td>
<td>Start</td>
<td>Stop</td>
</tr>
</tbody>
</table>

**Special Instructions:**

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

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

**Base Model**

| 392 Composite 40% Polyester / PVC * |

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

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

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

- **Front Packaging (Check One)**
  - G - Plain White with Gloss Finish
  - C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number

- **Back Packaging (Check One)**
  - G - Plain White with Gloss Finish
  - C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number
  - J - Plain White with Gloss Finish with Magnetic Stripe
  - I - Custom Artwork with Gloss Finish with Magnetic Stripe - Specify Custom Artwork Number

- **iCLASS Card Numbering**
  - 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)

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

- **2nd High Frequency Technology Card Numbering**
  - 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)

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

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

| Final Part Number | 392 | N | - | (Options #) |
iCLASS Programming Information | 2nd 13.56 MHz Programming Information

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<thead>
<tr>
<th>Bit Numbers</th>
<th>Format Number</th>
<th>Facility Code</th>
<th>SE Elite ICE Number (if applicable)</th>
<th>Facility Code</th>
<th>SE Elite ICE Number (if applicable)</th>
<th>Facility Code</th>
<th>SE Elite ICE Number (if applicable)</th>
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</thead>
<tbody>
<tr>
<td>(example: 26 bit)</td>
<td>(example: H10301)</td>
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<tr>
<td>Internal Card No. Start</td>
<td>Stop</td>
<td>Internal Card No. Start</td>
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<td>External Card No. Start</td>
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<tr>
<td>Special Instructions:</td>
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</tbody>
</table>

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

The SIO-enabled card with MIFARE or MIFARE DESFire embeddable smart card as well as HID Proximity offers multiple High Frequency technologies to simplify card issuance for diverse systems or migration projects. Add new applications while leveraging your investment in existing access control systems. Personalize the card with a photo ID, magnetic stripe, barcode, or anti-counterfeiting element. This card offers maximized compatibility with added security into installations that do not contain standard iCLASS or MIFARE/DESFIRE credentials.

For MIFARE DESFire, this card is only made available with MIFARE DESFire EV1 (not MIFARE DESFire 0.6).

This card is SIO only, it is not loaded with standard data payload and for this reason is not compatible with non iCLASS SE readers. Ensure each required option has been checked with the appropriate choice to fulfill a completed order form.

<table>
<thead>
<tr>
<th>Base Model</th>
<th>397 Composite 40% Polyester / PVC *</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>iCLASS Memory Size and Allocation (Check One)</strong></td>
<td></td>
</tr>
<tr>
<td>□ 0 - 2k Bits (256 Bytes) with 2 Application Areas (only available with MIFARE CLASSIC 1K)</td>
<td></td>
</tr>
<tr>
<td>□ 3 - 32k Bits (4K Bytes) Application areas 16k/2+16k1</td>
<td></td>
</tr>
<tr>
<td>□ 4 - 32k Bits (4K Bytes) Application areas 16k/16+16k</td>
<td></td>
</tr>
<tr>
<td><strong>13.56 MHz Technology Card Programming (Check One)</strong></td>
<td></td>
</tr>
<tr>
<td>□ R - SIO Programmed iCLASS &amp; 2nd Technology. Specify Programming Information</td>
<td></td>
</tr>
<tr>
<td>□ P - Programmed iCLASS with SIO only not 2nd Technology. Specify Programming Information.</td>
<td></td>
</tr>
<tr>
<td>□ A - Configured, Non-Programmed iCLASS, SIO Programmed 2nd Technology. Specify Programming Information.</td>
<td></td>
</tr>
<tr>
<td><strong>2nd High Frequency (13.56 MHz) Technology (Check One)</strong></td>
<td></td>
</tr>
<tr>
<td>□ M - MIFARE 1k Bits (only available with iCLASS 2k bits)</td>
<td></td>
</tr>
<tr>
<td>□ N - MIFARE 4k Bits</td>
<td></td>
</tr>
<tr>
<td>□ K - MIFARE DESFire EV1 8K Bytes</td>
<td></td>
</tr>
<tr>
<td><strong>125 kHz Technology Card Programming (Check One)</strong></td>
<td></td>
</tr>
<tr>
<td>□ P - &quot;HID Prox&quot; Programmed 125 kHz Technology. Specify Programming Information</td>
<td></td>
</tr>
<tr>
<td>□ C - &quot;Indala/Casi Prox&quot; Programmed 125 kHz Technology. Specify Programming Information</td>
<td></td>
</tr>
<tr>
<td>□ N - Initialized 125 kHz Technology. Programming Information Not Required</td>
<td></td>
</tr>
<tr>
<td><strong>Front Packaging (Check One)</strong></td>
<td></td>
</tr>
<tr>
<td>□ G - Plain White with Gloss Finish</td>
<td></td>
</tr>
<tr>
<td>□ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number</td>
<td></td>
</tr>
<tr>
<td><strong>Back Packaging (Check One)</strong></td>
<td></td>
</tr>
<tr>
<td>□ G - Plain White with Gloss Finish²</td>
<td></td>
</tr>
<tr>
<td>□ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number¹</td>
<td></td>
</tr>
<tr>
<td>□ 1 - Plain White with Gloss Finish with Magnetic Stripe²</td>
<td></td>
</tr>
<tr>
<td>□ 3 - Custom Artwork with Gloss Finish with Magnetic Stripe - Specify Custom Artwork Number²</td>
<td></td>
</tr>
<tr>
<td><strong>iCLASS Card Numbering¹ (Check One)</strong></td>
<td></td>
</tr>
<tr>
<td>□ M - Sequential Matching Internal/External (Inkjetted) ⁴</td>
<td></td>
</tr>
<tr>
<td>□ N - No External Card Numbering</td>
<td></td>
</tr>
<tr>
<td>□ S - Sequential Internal/Sequential Non-Matching External (Inkjetted) ⁶</td>
<td></td>
</tr>
<tr>
<td>□ R - Random Internal/Non-Matching Sequential External (Inkjetted) ⁶</td>
<td></td>
</tr>
<tr>
<td>□ A - Sequential Matching Internal/External (Laser Engraved)⁴</td>
<td></td>
</tr>
<tr>
<td>□ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)⁴</td>
<td></td>
</tr>
<tr>
<td>□ C - Random Internal/Non-Matching Sequential External (Laser Engraved)⁶</td>
<td></td>
</tr>
<tr>
<td><strong>Slot Punch</strong></td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>□ N - No Slot Punch</td>
<td></td>
</tr>
<tr>
<td><strong>2nd 13.56 MHz Card Numbering¹ (Check One)</strong></td>
<td></td>
</tr>
<tr>
<td>□ M - Sequential Matching Internal/External (Inkjetted) ⁴</td>
<td></td>
</tr>
<tr>
<td>□ N - No External Card Numbering</td>
<td></td>
</tr>
<tr>
<td>□ S - Sequential Internal/Sequential Non-Matching External (Inkjetted) ⁶</td>
<td></td>
</tr>
<tr>
<td>□ R - Random Internal/Non-Matching Sequential External (Inkjetted) ⁶</td>
<td></td>
</tr>
<tr>
<td>□ A - Sequential Matching Internal/External (Laser Engraved)⁴</td>
<td></td>
</tr>
<tr>
<td>□ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)⁴</td>
<td></td>
</tr>
<tr>
<td>□ C - Random Internal/Non-Matching Sequential External (Laser Engraved)⁶</td>
<td></td>
</tr>
<tr>
<td><strong>125 kHz Card Numbering¹ (Check One)</strong></td>
<td></td>
</tr>
<tr>
<td>□ M - Sequential Matching Internal/External (Inkjetted) ⁴</td>
<td></td>
</tr>
<tr>
<td>□ N - No External Card Numbering</td>
<td></td>
</tr>
<tr>
<td>□ S - Sequential Internal/Sequential Non-Matching External (Inkjetted) ⁶</td>
<td></td>
</tr>
<tr>
<td>□ R - Random Internal/Non-Matching Sequential External (Inkjetted) ⁶</td>
<td></td>
</tr>
<tr>
<td>□ A - Sequential Matching Internal/External (Laser Engraved)⁴</td>
<td></td>
</tr>
<tr>
<td>□ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)⁴</td>
<td></td>
</tr>
<tr>
<td>□ C - Random Internal/Non-Matching Sequential External (Laser Engraved)⁶</td>
<td></td>
</tr>
<tr>
<td><strong>Option - Custom Artwork¹</strong></td>
<td></td>
</tr>
<tr>
<td>□ (Specify Artwork Number – Refer to the Custom Artwork Forms for new artwork)</td>
<td></td>
</tr>
</tbody>
</table>

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

| Final Part Number | N | - | (Options #) |
### iCLASS Programming Information

<table>
<thead>
<tr>
<th>Bit Numbers</th>
<th>(example: 26 bit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Format Number</td>
<td>(example: H10301)</td>
</tr>
<tr>
<td>Facility Code</td>
<td></td>
</tr>
<tr>
<td>SE Elite ICE Number (if applicable)</td>
<td></td>
</tr>
<tr>
<td>(Custom Formats) Site Code</td>
<td>City Code</td>
</tr>
<tr>
<td>OEM Code</td>
<td></td>
</tr>
<tr>
<td>Internal Card No. Start</td>
<td>Stop</td>
</tr>
<tr>
<td>External Card No. Start</td>
<td>Stop</td>
</tr>
</tbody>
</table>

### 2nd 13.56 MHz Programming Information

<table>
<thead>
<tr>
<th>Bit Numbers</th>
<th>(example: 26 bit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Format Number</td>
<td>(example: H10301)</td>
</tr>
<tr>
<td>Facility Code</td>
<td></td>
</tr>
<tr>
<td>SE Elite ICE Number (if applicable)</td>
<td></td>
</tr>
<tr>
<td>(Custom Formats) Site Code</td>
<td>City Code</td>
</tr>
<tr>
<td>OEM Code</td>
<td></td>
</tr>
<tr>
<td>Internal Card No. Start</td>
<td>Stop</td>
</tr>
<tr>
<td>External Card No. Start</td>
<td>Stop</td>
</tr>
</tbody>
</table>

### 125 kHz Programming Information

<table>
<thead>
<tr>
<th>Bit Numbers</th>
<th>(example: 26 bit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Format Number</td>
<td>(example: H10301)</td>
</tr>
<tr>
<td>Facility Code</td>
<td></td>
</tr>
<tr>
<td>SE Elite ICE Number (if applicable)</td>
<td></td>
</tr>
<tr>
<td>(Custom Formats) Site Code</td>
<td>City Code</td>
</tr>
<tr>
<td>OEM Code</td>
<td></td>
</tr>
<tr>
<td>Internal Card No. Start</td>
<td>Stop</td>
</tr>
<tr>
<td>External Card No. Start</td>
<td>Stop</td>
</tr>
</tbody>
</table>

---

1. For new artwork files, contact Customer Service for custom artwork number, lead-times, and cost.
2. Cards ordered with plain white front and back packaging, or custom artwork, will still have a small HID logo and reference number printed in the lower left-hand corner and a slot punch target printed on the back of the card.
3. The external card number is placed in the bottom right-hand corner for iCLASS 13.56 MHz and in the bottom center for 125 kHz Proximity on the back of the card.
4. For Laser Engraved external numbers, consult factory for lead times and cost.
5. MIFARE Classic UID length is by default 4 bytes, 7 bytes for MIFARE DESFire EV1
6. Please note that cards shipped out of North America are always laser-engraved. Inkjetted option is not available for these cards.
* The composite construction is recommended for all cards with over-laminate applied. Consult with the printer manufacturer prior to ordering.
1436/1446 - MIFARE Embeddable Card Ordering Guide

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

<table>
<thead>
<tr>
<th>Base Model</th>
<th>1436 (1K) Composite 40% Polyester / PVC</th>
<th>1446 (4K) Composite Polyester 40% / PVC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programming (Check One)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M - Programmed, (13.56 MHz with HID Format)* Specify Programming Information.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>N - Non-Programmed (13.56 MHz), Programming Information Not Required.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S - Custom Programmed, Specify Programming Information.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front Packaging</td>
<td></td>
<td></td>
</tr>
<tr>
<td>If Custom Artwork is desired, specify Custom Artwork Number below</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E - Contact Module Embeddable Plain Gloss White Finish</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Back Packaging (Check One)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G - Plain White with Gloss Finish²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S - Standard MIFARE Artwork²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 - Plain White with Gloss Finish with Magnetic Stripe²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 - Standard MIFARE Artwork with Magnetic Stripe²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number¹,²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 - Custom Artwork with Gloss Finish with Magnetic Stripe Specify Custom Artwork Number¹,²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Card Numbering (Check One)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M - Sequential Matching Internal/External (Inkjetted)⁷</td>
<td></td>
<td></td>
</tr>
<tr>
<td>O - Sequential External only (Inkjetted)⁷</td>
<td></td>
<td></td>
</tr>
<tr>
<td>N - No External Card Numbering</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S - Sequential Internal/Sequential Non-Matching External (Inkjetted)⁷</td>
<td></td>
<td></td>
</tr>
<tr>
<td>R - Random Internal/Non-Matching Sequential External (Inkjetted)⁷</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A - Sequential Matching Internal/External (Laser Engraved)⁴</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)⁴</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C - Random Internal/Non-Matching Sequential External (Laser Engraved)⁴</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Slot Punch (Check One)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>N - No Slot Punch (Printed location of vertical slot punch will remain)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>V - Vertical Slot Punch</td>
<td></td>
<td></td>
</tr>
<tr>
<td>For a list of embeddable modules, contact your Regional Sales Representative.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Option - Custom Artwork¹</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specify Artwork Number – Refer to the Custom Artwork Forms for new Artwork</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enter your final card options from check boxes above. Example: 1430NGGNN</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Final Part Number</td>
<td>E</td>
<td>- (Options #)</td>
</tr>
</tbody>
</table>

13.56 MHz Card Programming Information

<table>
<thead>
<tr>
<th>Bit Numbers (example: 26 bit)</th>
<th>Format Number (example: H10301)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility Code</td>
<td></td>
</tr>
<tr>
<td>(Custom Formats) Site Code</td>
<td>City Code</td>
</tr>
<tr>
<td>Internal Card No. Start</td>
<td>Stop</td>
</tr>
<tr>
<td>External Card No. Start</td>
<td>Stop</td>
</tr>
<tr>
<td>Special Instructions:</td>
<td></td>
</tr>
</tbody>
</table>

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

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

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

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

<table>
<thead>
<tr>
<th>Base Model</th>
<th>1437 (1K) Composite 40% Polyester / PVC</th>
<th>1447 (4K) Composite 40% Polyester / PVC</th>
</tr>
</thead>
</table>

**MIFARE Programming (Check One)**
- L - Programmed, (125 kHz only with HID Format).
- M - Programmed, (13.56 Mhz only with HID Format).
- B - Programmed, (125 kHz and 13.56 Mhz with HID Format).
- N - Non-Programmed (125 kHz and 13.56 Mhz without HID Format). Programming Information Not Required.
- S - Custom Programmed, (13.56 Mhz only). Prox configured Specify Programming Information.
- R - Custom Programmed, (125 kHz and Custom 13.56 Mhz with HID Format). Specify Programming Information.

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

**Back Packaging (Check One)**
- G - Plain White with Gloss Finish.
- S - Standard HID Prox and MIFARE Artwork.
- 1 - Plain White with Gloss Finish with Magnetic Stripe.
- 2 - Standard MIFARE Artwork with MagneticStripe.
- 3 - Custom Artwork with Gloss Finish with Magnetic Stripe - Specify Custom Artwork Number.
- C - Custom Artwork with Gloss Finish - Specify Custom Artwork Number.

**13.56 MIFARE Card Numbering (Check One)**
- M - Sequential Matching Internal/External (Inkjetted).
- G - 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).
- B - Sequential Internal/Sequential Non-Matching External (Engraved).
- C - Random Internal/Non-Matching Sequential External (Engraved).

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

**125 kHz Prox Card Numbering (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).
- B - Sequential Internal/Sequential Non-Matching External (Engraved).
- C - Random Internal/Non-Matching Sequential External (Engraved).

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

**Option - Custom Artwork**
(Specify Artwork Number – Refer to the Custom Artwork Forms for new Artwork)

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

<table>
<thead>
<tr>
<th>Final Part Number</th>
<th>E</th>
<th></th>
<th></th>
<th></th>
<th>(Options #)</th>
</tr>
</thead>
</table>

**13.56 MHz Programming Information**

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

**125 kHz Programming Information**

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

Special Instructions:

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

1. For new artwork files, contact Customer Service for custom artwork number, lead times, and cost.
2. Cards ordered with plain white front and back packaging, with no HID artwork or with custom artwork, will still have a small HID logo and reference number printed in the lower left-hand corner and a slot punch target printed on the back of the card.
3. The external card number is placed in the bottom left-hand corner (125 kHz) and in the bottom right-hand corner (13.56 Mhz) on the back of the card on Prox Programming only. Permanent unique MIFARE 32 Bit serial # cannot be printed on cards.
4. For Laser Engraved external numbers, consult factory for lead times and cost.
5. Cards are provided with an optional slot punch at no additional charge. Some video imaging printers cannot accommodate pre-slot punched cards. Consult with the printer manufacturer prior to ordering.
6. Includes a permanent Unique MIFARE 32 Bit Serial number.
7. Please note that cards shipped out of North America are always laser-engraved. Inkjetted option is not available for these card.
8. The composite construction is recommended for all cards with over-laminate applied.
1456 - MIFARE DESFire Embeddable Card Ordering Form Guide

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

**Note:** Those EV1 cards can operate in a backward compatible mode and work with existing MIFARE DESFire systems supporting MIFARE DESFire 0.6

### Base Model  **1456 Composite 40% Polyester / PVC**

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

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

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

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

**Card Numbering (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)
- B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)
- C - Random Internal/Non-Matching Sequential External (Laser Engraved)

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

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

**Option - Custom Artwork**
- Specify Artwork Number – Refer to the Custom Artwork Forms for new Artwork

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

<table>
<thead>
<tr>
<th>Final Part Number</th>
<th>1456</th>
<th>C</th>
<th>E</th>
<th>-</th>
<th>(Options #)</th>
</tr>
</thead>
</table>

### 13.56 MHz Card Programming Information

<table>
<thead>
<tr>
<th>Bit Numbers</th>
<th>26 bit</th>
<th>Format Number</th>
<th>H10301</th>
</tr>
</thead>
</table>
| Facility Code

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

Internal Card No. Start, Stop

External Card No. Start, Stop

Special Instructions:

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

---

1. For new artwork files, contact Customer Service for custom artwork number, lead times, and cost.
2. Cards ordered with plain white front and back packaging, with no HID artwork or with custom artwork, will still have a small HID logo and reference number printed in the lower left-hand corner and a slot punch target printed on the back of the card.
3. The external card number is placed in the bottom right corner on the back of the card on Prox Format Programming only. Permanent Unique MIFARE 56 Bit serial number cannot be printed on cards.
4. For Laser Engraved external numbers, consult factory for lead times and cost.
5. Cards are provided with optional slot punch at no additional charge. Some video imaging printers cannot accommodate pre-slot punched cards. Consult the printer manufacturer prior to ordering.
6. Includes a permanent Unique MIFARE 56 Bit Serial number.
7. Please note that cards shipped out of North America are always laser-engraved. Inkjetted option is not available for these cards.
1457 - Combination (MIFARE DESFire + PROX) Embeddable Card Ordering Guide

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

Note: Those EV1 cards can operate in a backward compatible mode and work with existing MIFARE DESFire systems supporting MIFARE DESFire 0.6

### Base Model
- **1457 Composite 40% Polyester / PVC**

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

#### MIFARE DESFire Programming (Check One)
- L - Programmed, (125 kHz only)², Specify Programming Information.
- N - Non-Programmed (125 kHz and 13.56 MHz), Programming Information Not Required.
- S - Custom Programmed, (13.56 MHz only), Prox Configured Specify Programming Information.
- R - Custom Programmed, (125 kHz and Custom 15.95 MHz)¹, Specify Programming Information.

#### Front Packaging
- If desired Custom Printing, specify Custom Artwork Number below.¹
- E - Contact Module Embeddable Plain Gloss White Finish

#### Back Packaging (Check One)
- G - Plain White with Gloss Finish²
- 1 - Plain White with Gloss Finish with Magnetic Stripe²
- 3 - Custom Artwork with Gloss Finish with Magnetic Stripe - Specify Custom Artwork Number¹
- C - Custom Artwork with Gloss Finish - Specify Custom Artwork Number²

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

#### Slot Punch¹ (Check One)
- N - No Slot Punch (Printed location of vertical slot punch will remain)
- V - Vertical Slot Punch

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

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

**Option - Custom Artwork**
- SpecifyCustomArtworkNumber – Refer to the Custom Artwork Forms for new artwork

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

<table>
<thead>
<tr>
<th>Final Part Number</th>
<th>1457</th>
<th>C</th>
<th>E</th>
<th>-</th>
<th>(Options #)</th>
</tr>
</thead>
</table>

#### 13.56 MHz Programming Information
- Bit Numbers (example: 26 bit)
- Format Number (example: H10301)
- Facility Code
- (Custom Formats) Site Code City Code
- OEM Code
- Internal Card No. Start Stop
- External Card No. Start Stop

#### 125 kHz Programming Information
- Format Number (example: H10301)
- Facility Code
- (Custom Formats) Site Code City Code
- OEM Code
- Internal Card No. Start Stop
- External Card No. Start Stop
- Special Instructions

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

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

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

<table>
<thead>
<tr>
<th>Base Model</th>
<th>501 Composite 40% Polyester / PVC 60%</th>
</tr>
</thead>
<tbody>
<tr>
<td>iCLASS Memory Size and Allocation</td>
<td></td>
</tr>
<tr>
<td>☐ 5 - 16K Bytes</td>
<td></td>
</tr>
<tr>
<td>☐ 6 - 8K Bytes</td>
<td></td>
</tr>
<tr>
<td>Secure Identity Object Programming</td>
<td></td>
</tr>
<tr>
<td>☐ P - Programmed with Security Identity Object (SIO)</td>
<td></td>
</tr>
</tbody>
</table>

**Front Packaging (Check One)**

|☐ G - Plain White with Gloss Finish |   |
|☐ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number¹ |   |

**Back Packaging (Check One)**

|☐ G - Plain White with Gloss Finish² |   |
|☐ C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number¹ |   |
|☐ 1 - Plain White with Gloss Finish with Magnetic Stripe² |   |
|☐ 3 - Custom Artwork with Gloss Finish with Magnetic Stripe - Specify Custom Artwork Number¹ |   |

| Card Numbering (Check One) |   |
|☐ M - Sequential Matching Internal/External (Inkjetted)³ |   |
|☐ N - No External Card Numbering |   |
|☐ S - Sequential Internal/Sequential Non-Matching External (Inkjetted)⁴ |   |
|☐ R - Random Internal/Non-Matching Sequential External (Inkjetted)⁵ |   |
|☐ A - Sequential Matching Internal/External (Laser Engraved)⁶ |   |
|☐ B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)⁷ |   |
|☐ C - Random Internal/Non-Matching Sequential External (Laser Engraved)⁸ |   |

**Slot Punch**

|☐ N - No Slot Punch |   |

**Optional - Custom Artwork¹**

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

Enter your final card options from check boxes above. Example: 501PGGNN

<table>
<thead>
<tr>
<th>Final Part Number</th>
<th>501</th>
<th>P</th>
<th>N</th>
<th>-</th>
<th>(Options #)</th>
</tr>
</thead>
</table>

**iCLASS Seos Card Programming Information**

<table>
<thead>
<tr>
<th>Bit Numbers</th>
<th>(example: 26 bit)</th>
<th>Format Number</th>
<th>(example: H10301)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facility Code</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SE Elite ICE Number (if applicable)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Custom Formats) Site Code</td>
<td></td>
<td>City Code</td>
<td>OEM Code</td>
</tr>
<tr>
<td>Internal Card # Start</td>
<td></td>
<td>Stop</td>
<td></td>
</tr>
<tr>
<td>External Card # Start</td>
<td></td>
<td>Stop</td>
<td></td>
</tr>
</tbody>
</table>

Special Instructions:  

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

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

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

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

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

⁵ Please note that cards shipped out of North America are always laser-engraved. Inkjetted option is not available for these card.
## 511 - iCLASS Seos + Prox Embeddable Card Ordering Guide

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

### Base Model

| 511 Composite 40% Polyester / PVC |

### iCLASS Memory Size and Allocation

- 5 - 16K Bytes
- 6 - 8K Bytes

### Secure Identity Object Programming (Check One)

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

### Front Packaging (Check One)

- G - Plain White with Gloss Finish
- C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number

### Back Packaging (Check One)

- G - Plain White with Gloss Finish
- C - Custom Artwork with Gloss Finish – Specify Custom Artwork Number
- 3 - Custom Artwork with Gloss Finish with Magnetic Stripe

### 13.56 MHz iCLASS Card Numbering

- 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)
- B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)
- C - Random Internal/Non-Matching Sequential External (Laser Engraved)

### Slot Punch

- N - No Slot Punch

### 125 kHz Card Numbering

- 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)
- B - Sequential Internal/Sequential Non-Matching External (Laser Engraved)
- C - Random Internal/Non-Matching Sequential External (Laser Engraved)

### Option - Custom Artwork

| Specify Custom Artwork Number – Refer to the Custom Artwork Forms for new artwork |

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

| Final Part Number | 511 |  |  | N | - | (Options #) |

### iCLASS Seos Card Programming Information

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

### 125 kHz Programming Information

- Format Number . (example: H10301)
- Facility Code
- (Custom Formats) Site Code , City Code
- Olympic Code
- Internal Card No. Start , Stop
- External Card No. Start , Stop
- Special Instructions:

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

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

**Reader Ordering Guide**

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

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

The following ordering is available for OMNIKEY Readers.

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

Table 1 - OMNIKEY Smart Card Readers

<table>
<thead>
<tr>
<th>OMNIKEY Model PC Interface</th>
<th>Customization Options</th>
<th>Description</th>
<th>Part Number</th>
<th>TAA* Part Number</th>
<th>Solution Compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>3021 USB</td>
<td>Logo</td>
<td>USB 2.0</td>
<td>R30210315-1</td>
<td>R30210315-1</td>
<td>Crescendo</td>
</tr>
<tr>
<td></td>
<td>Housing Color</td>
<td>EMV, CCID</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cable</td>
<td>Transparent/ grey housing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TAA compliant</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>MOQ 100</td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td>Order quantity multiples of 100</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3121 USB</td>
<td>Logo</td>
<td>USB 2.0</td>
<td>R31210320-01</td>
<td>R31210349-1</td>
<td>Crescendo</td>
</tr>
<tr>
<td></td>
<td>Housing Color</td>
<td>EMV, CCID</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cable</td>
<td>Standard standing base</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Landing Contacts</td>
<td>MOQ 100</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Order quantity multiples of 100</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3121 USB (Heavy standing base)</td>
<td>Logo</td>
<td>Contact Reader</td>
<td>R31210320-01</td>
<td>R31210349-1</td>
<td>Crescendo</td>
</tr>
<tr>
<td></td>
<td>Housing Color</td>
<td>EMV, CCID</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cable</td>
<td>Heavy standing base (100 gram) and middle piece</td>
<td>R31210320-01</td>
<td>R31210349-1</td>
<td>Crescendo</td>
</tr>
<tr>
<td></td>
<td>Landing Contacts</td>
<td>TAA compliant</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5022 CL USB</td>
<td>Logo</td>
<td>Contactless (13.56 MHz) Desktop Reader</td>
<td>R50220318-DB (Dark Blue)</td>
<td>N/A</td>
<td>iCLASS</td>
</tr>
<tr>
<td></td>
<td>Housing Color</td>
<td>Available in various color options</td>
<td>R50220318-GR (Grey)</td>
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<tr>
<td></td>
<td>Cable</td>
<td>Optional Card Retainer &amp; Mounting Accessories</td>
<td>(See Mounting Accessory Pack and Card Retainer)</td>
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<td></td>
</tr>
<tr>
<td>5023 USB</td>
<td>Logo</td>
<td>Contactless (13.56 MHz) Desktop Reader with integrated Secure Element</td>
<td>R50230318-DB (Dark Blue)</td>
<td>N/A</td>
<td>iCLASS iCLASS SE iCLASS Elite Seos</td>
</tr>
<tr>
<td></td>
<td>Housing Color</td>
<td>Available in various color options</td>
<td>R50230318-GR (Grey)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cable</td>
<td>Optional Card Retainer &amp; Mounting Accessories</td>
<td>(See Mounting Accessory Pack and Card Retainer)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5025 CL USB</td>
<td>Logo</td>
<td>Contactless (125 kHz) Desktop Reader for HID Prox Credentials</td>
<td>R50250001-GR (Grey)</td>
<td>N/A</td>
<td>HID Prox</td>
</tr>
<tr>
<td></td>
<td>Housing Color</td>
<td>Full CCID compatibility</td>
<td>R50250001-GR (Grey)</td>
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</tr>
<tr>
<td></td>
<td>Cable</td>
<td>For Thin- and Zeroclients</td>
<td>(See Mounting Accessory Pack, Card Retainer and Color Pack)</td>
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<tr>
<td></td>
<td></td>
<td>5325CL compatibility mode</td>
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<tr>
<td></td>
<td></td>
<td>Available in various color options</td>
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<tr>
<td></td>
<td></td>
<td>Optional Card Retainer &amp; Mounting Accessories</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OMNIKEY Model PC Interface</td>
<td>Customization Options</td>
<td>Description</td>
<td>Part Number</td>
<td>TAA* Part Number</td>
<td>Solution Compatibility</td>
</tr>
<tr>
<td>----------------------------</td>
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<td>------------------------</td>
</tr>
<tr>
<td>5422 USB</td>
<td>Logo, Housing Color, Cable</td>
<td>Dual Interface (13.56 MHz Contactless and Contact Reader)</td>
<td>R54220301</td>
<td>N/A</td>
<td>Crescendo/iCLASS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Compatible with all major smart card technologies, tags and new technologies such as NFC</td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Supports HID iCLASS, MIFARE and MIFARE DESFire as well as ISO 7816 and ISO 14443 A/B</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>5427 CK Gen 2 (USB Interface)</td>
<td>Logo, Housing Color, Cable</td>
<td>Contactless (13.56 MHz &amp; 125 kHz HID Prox) Smart Card Reader</td>
<td>R54270101, R54270101-Elite, R54270101-Elite-Indala, R54270101-Indala</td>
<td>N/A</td>
<td>HID Prox/Indala/iCLASS/iCLASS SE/iCLASS Elite/Seos/Mobile Access (NFC only)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mobile Access support only over NFC</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Seos support</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>CCID or Keyboard Wedge Operation Mode</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Closed Housing</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Web-based configuration interface</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Transparent card retainer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5427 CK Gen 2 (USB Interface / PC Interface) with Bluetooth support</td>
<td>Logo, Housing Color, Cable</td>
<td>Contactless (13.56 MHz &amp; 125 kHz HID Prox) Smart Card Reader</td>
<td>R54270111 (Mobile ready reader) R54270111-Elite (Mobile enabled reader) R54270111-Elite-Indala (Mobile enabled reader)</td>
<td>N/A</td>
<td>HID Prox/Indala/iCLASS/iCLASS SE/iCLASS Elite/Seos/Mobile Access</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mobile Access support over Bluetooth and NFC</td>
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<tr>
<td></td>
<td></td>
<td>Seos support</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>CCID or Keyboard Wedge Operation Mode</td>
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<td></td>
<td></td>
<td>Closed Housing</td>
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<td>Web-based configuration interface</td>
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<td>Transparent card retainer</td>
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</tr>
<tr>
<td>5427 CK (USB Interface)</td>
<td>Logo, Housing Color, Cable</td>
<td>Contactless (13.56 MHz &amp; 125 kHz HID Prox) Smart Card Reader</td>
<td>R54270001 (base model) R54270001-Elite (Elite key support) R54270001-Indala (Custom Indala format) R54270001-V2-Indala (V2 security + Custom Indala format) R54270001-Elite-Indala (Elite + Custom Indala format) (See Vertical Standing Base and Mounting Accessory Pack)</td>
<td>N/A</td>
<td>HID Prox/Indala/iCLASS/iCLASS SE/iCLASS Elite/Seos</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Seos support</td>
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<tr>
<td></td>
<td></td>
<td>CCID or Keyboard Wedge Operation Mode</td>
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<td></td>
<td></td>
<td>Closed Housing</td>
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<td></td>
<td>Web-based configuration interface</td>
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<td></td>
<td></td>
<td>Transparent card retainer</td>
<td></td>
<td></td>
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<tr>
<td>6121 USB Dongle</td>
<td>Logo, Housing Color</td>
<td>EMV, CCID</td>
<td>R61210320-2</td>
<td>N/A</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>ISO 7816 SIM-Size (ID-000) contact slot</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>USB 2.0 Key-ring attachable</td>
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<tr>
<td></td>
<td></td>
<td>EMV, CCID</td>
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<td></td>
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<td>MOQ 100</td>
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<td></td>
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<td>Order quantity multiples of 100</td>
<td></td>
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</tbody>
</table>
## Accessories Ordering Guide

<table>
<thead>
<tr>
<th>OMNIKEY Model PC Interface</th>
<th>Customization Options</th>
<th>Description</th>
<th>Part Number</th>
<th>TAA Part Number</th>
<th>Solution Compatibility</th>
</tr>
</thead>
</table>
| Heavy standing base 31xx   |                       | Heavy standing base  
                          Middle piece  
                          Weight includes middle piece 100 gram | A00000002 | OMNIKEY 3121 |
| Mounting Accessory Pack    |                       | Packaging size 10 pcs.  
                          Mounting Jacket for Screw-on mount  
                          Mounting Jacket Camera mounting screw use (hex nut)  
                          Adhesive Strip for mounting jacket | A50210001 | OMNIKEY 5021, OMNIKEY 5022, OMNIKEY 5023, OMNIKEY 5025, OMNIKEY 5421, OMNIKEY 5422, OMNIKEY 5427 |
| Color Pack                 |                       | Bag with covers in 6 different colors for OMNIKEY 50xx housing, bulk packed, 1 piece of each color (blue, dark blue, green, anthracite, orange, red) | A50210003 | OMNIKEY 5021, OMNIKEY 5022, OMNIKEY 5023, OMNIKEY 5025 |
| Card Retainer              |                       | Packaging size 10 pcs.  
                          Card Retainer for card-present operation | A50210002 | OMNIKEY 5021, OMNIKEY 5022, OMNIKEY 5023, OMNIKEY 5025 |
| Card Retainer              |                       | Packaging size 10 pcs.  
                          Card Retainer for card-present operation | A54210001 | OMNIKEY 5421, OMNIKEY 5422, OMNIKEY 5427 |
| Vertical Standing Base (black) |                       | Standing base for vertical reader  
                          Supports card-present operation  
                          Weight approx. 90 gram  
                          Packaging size 1 pcs. | A54270001 | OMNIKEY 5427 |
| Vertical Standing Base (grey) |                       | Standing base for vertical reader  
                          Supports card-present operation  
                          Weight approx. 90 gram  
                          Packaging size 1 pcs. | A54210002 | OMNIKEY 5421, OMNIKEY 5422 |
| Configuration Card for OK5427 CK |                   | Packaging size 1 pcs.  
                          Configuration Card for OK5427CK  
                          8K Bytes MIFARE DESFire EV1  
                          Not programmed | 1450cnggnn | OMNIKEY 5427CK |
Development Tool Kit OMNIKEY 5x27CK - 3134ANL0000

Parts

Reader Boards & Accessories
1 – 5127CK Reader Board
1 – 5127CK Mini Reader Board
1 – 5127CK Mini Reader Board with industrial housing
1 – 5427CK Gen 2 Reader Bluetooth for Mobile Access Ready
1 – 5427CK Gen 1 Reader

Sample Credentials
- MIFARE DESFire EV1 Card
- HID ISOProx II Card
- HID iCLASS 32K (16K16 + 16K/1) Card
- HID MIFARE Classic 4K Card
- HID iCLASS Seos 8K Card
- Indala Flexpass Card

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

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

The following rules apply to all standard customizations:
- Minimum Order Quantities (MOQ) may apply (depending on the requested customization)
- Additional 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)
## Appendix
### Custom Cards
#### Artwork Checklist

<table>
<thead>
<tr>
<th>Company Name:</th>
<th>PO No.:</th>
<th>Date:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Quantity:</th>
<th>Card Artwork File No.:</th>
<th></th>
</tr>
</thead>
</table>

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 Cards

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>402/407 Crescendo Card</td>
<td>400 Combo Contact/Contactless Card</td>
</tr>
<tr>
<td>1597 Smart ISOProx II Card</td>
<td>1598 Smart DuoProx II Card</td>
</tr>
<tr>
<td>211 - iCLASS Embeddable Card</td>
<td>213 - iCLASS Prox embeddable Card</td>
</tr>
<tr>
<td>1436/1446 - MIFARE</td>
<td>1437/1447 - HID Prox and MIFARE</td>
</tr>
<tr>
<td>1456 - MIFARE DESFire</td>
<td>1457 - MIFARE DESFire and Prox</td>
</tr>
</tbody>
</table>

**Artwork Placement, Font Styles and Colors:**

<table>
<thead>
<tr>
<th>Placement</th>
<th>Font Style(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front Side</td>
<td></td>
</tr>
<tr>
<td>Back Side</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Font Style(s):</th>
<th>Front Side Colors:</th>
<th>Back Side Colors:</th>
</tr>
</thead>
</table>

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 | 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 ☐ Glowing in the Dark |
| Micro-fine Print | Yes ☐ No ☐ |
| Hologram | 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 email or on CD. Compressed files should be self-extracting. Submitted media will not be returned to the customer. An FTP address is available upon request for submitting media.

☐ PLATFORM: MS WINDOWS/Macintosh

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

☐ FONTS

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

☐ PLACED GRAPHICS

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

☐ GRAPHIC APPLICATIONS (latest version)

Adobe Photoshop - Adobe Illustrator® - QuarkXPress

☐ BITMAPS AND TRACING

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

☐ BLEEDS

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

☐ MARGINS

Elements that do not bleed should be at least 0.125 inch from the edge.
Anti-Counterfeiting Descriptions

Printing Types

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

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

**Surface Hologram**

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

**Embedded Hologram**

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

**Embedded Advantage™ Security Seal**

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

**Invisible Ultra-Violet (UV) Fluorescing Images**

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

**Micro-fine Printing**

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

**Guilloche Printing**

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

**Composite Formulations**

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

Standard PVC and Composite PVC/Polyester Cards

<table>
<thead>
<tr>
<th>Company Name:</th>
<th>PO No.</th>
<th>Date</th>
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<tbody>
<tr>
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</table>

<table>
<thead>
<tr>
<th>Quantity:</th>
<th>Card and Artwork File No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

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. Debitk stripe), indicate the locations of the magnetic stripe(s) on the template.

   - **Standard Location**
   - **Custom Location**

---

**Card Artwork Templates**

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**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.

6. Slot edge may damage the printer ribbon. Slot should be punched after dye sublimation printing.

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

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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.