MIFARE DESFire EV3
Multi-Technology Card
How to Order Guide

PLT-06186, Rev A.0
March 2022

HID

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Trademarks

Contacts

For technical support, please visit: **https://support.hidglobal.com.**

What's new

Date	Description	Revision
March 2022	Inital release.	A.0

A complete list of revisions is available in **Revision history**.

HID Global® DESFire EV3 multi-technology credentials are available with a range of programming profiles to meet high security requirements using Secure Identity Object™ (SIO®). They offer compatibility with existing EV1 based infrastructure or meet bespoke specifications and include iCLASS® and HID® Prox™/Indala® technology to support diverse systems or migration projects.

There are three core DESFire EV3 programming profiles. Each DESFire profile is available with additional iCLASS or iCLASS and HID/Indala Prox technology.

- **DESFire EV3 High Security Profile**
  A Secure Identity Object (SIO) based DESFire EV3 application that utilizes the latest security features combined with random UID for enhanced privacy protection. Compatible with HID Signo™ Reader firmware 10.0.2.2 (service pack 2) or greater.
- **DESFire EV3 Compatibility Profile**
  A Secure Identity Object (SIO) DESFire EV1 Secure Identity Object (SIO) based application to support iCLASS and multiCLASS® SE and HID Signo Reader. This option includes the High Security Profile to support a seemless transition to a High Security Profile based reader solution.
- **DESFire EV3 Custom Profile**
  Available custom programmed to meet bespoke specifications, or unprogrammed for full in-field personalization compatible with EV1, EV2, or EV3 compliant solutions.

	Base Part Number		DESFire Compatibility	
	DESFire + iCLASS/ iCLASS SE	**DESFire + iCLASS/ iCLASS SE + Prox**	**Readers**	**CP1000**
High Security Profile	822	832	HID Signo Reader (Firmware 10.0.2.2 or greater)	Custom Application Programming with Non-Diversified keys
Compatibility Profile	821	831	HID Signo Reader, iCLASS SE®, multiCLASS SE Readers	EV1 SIO and Custom Application Programming
Custom Profile	820	830	HID Signo Reader Custom Profile iCLASS SE Custom Profile, multiCLASS SE Custom Profile	EV1 Custom Application Programming

Powering
Trusted Identities

MIFARE DESFire EV3 + iCLASS 32k Technology Card: High Security Profile - 822

Best in class security and privacy on EV3, programmed with an enhanced application that leverages the new features of EV3 plus a Secure Identity Object (SIO). Offers iCLASS technology to simplify card issuance for diverse systems or migration projects.

DESFire EV3 Compatibility: Supported by HID Signo readers with firmware 10.0.2.2 or higher.

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

Base Model	☒ 822 Composite (40% Polyester/PVC)

MIFARE DESFire EV3 Memory Size
☒ **F** - 8K Bytes

iCLASS 32K Memory Configuration
☐ **3** - 32k bit (4K bytes) application areas 16k/2+16k/1

☐ **4** - 32k bits (4K bytes) application areas 16k/16+16k/1

DESFire Secure Identity Object Programming[1]
☒ **P** - Programmed with enhanced EV3 application with Secure Identity Object (SIO)
Based on random UID for improved ISO14443A privacy of user data.
Compatible with Signo Reader firmware 10.0.2.2 or higher.
This profile is not compatible with iCLASS/MultiCLASS rev E.

iCLASS Programming (select one option)
☐ **P** - Programmed with Secure Identity Object (SIO)

☐ **S** - Programmed with Secure Identity Object (SIO) and standard iCLASS access control application

☐ **H** - Programmed with standard iCLASS access control application

☐ **V** - Unprogrammed for use with iCLASS SE Encoder (SIO programming only)

☐ **C** - Unprogrammed for use with iCLASS SE Encoder (standard iCLASS application programming only)

Front Packaging (select one option)
☐ **G** - Plain White with Gloss Finish

☐ **C** - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[3]

Back Packaging (select one option)
☐ **G** - Plain White with Gloss Finish[2]

☐ **1** - Plain White with Gloss Finish with Magnetic Stripe[2]

☐ **C** - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[2,3]

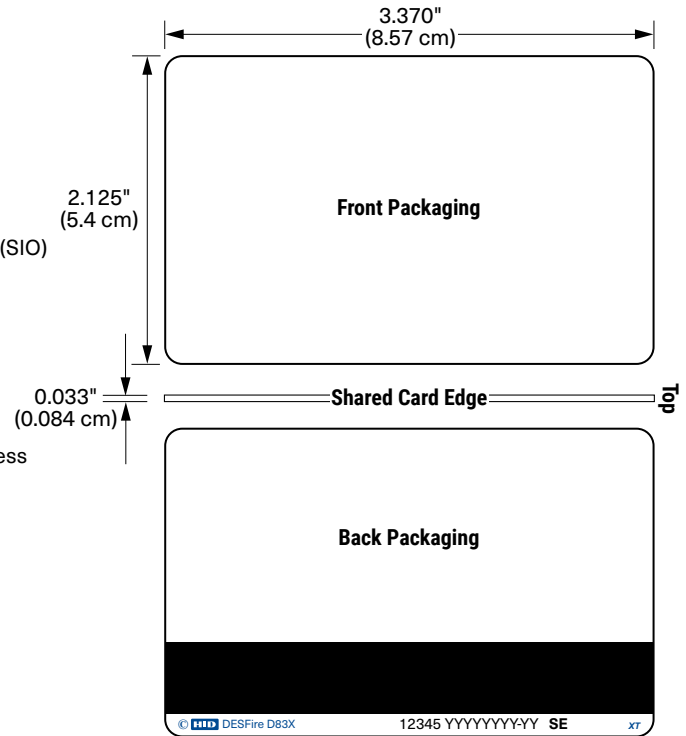☐ **3** - Custom Artwork with Gloss Finish with Magnetic Stripe – Specify Custom Artwork Number[2,3]

DESFire Card Numbering[4] (select one option)
☐ **N** - No Printed Card Numbering, sales number marking only

☐ **A** - Sequential Matching Encoded/Printed (Laser Engraved)

☐ **B** - Sequential Encoded/Sequential Non-Matching Printed (Laser Engraved)

☐ **C** - Random Encoded/Non-Matching Sequential Printed (Laser Engraved)

Slot Punch
☒ **N** - No Slot Punch.

IMPORTANT – 822 credentials do not allow a slot punch due to antenna design.
Use a badge holder to attach this card to a lanyard or badge clip.

3.370"
(8.57 cm)

2.125"
(5.4 cm)

Front Packaging

0.033"
(0.084 cm)

Shared Card Edge ———— Top

Back Packaging

© **HID** DESFire D83X   12345 YYYYYYYY-YY **SE**   xt

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

Powering
Trusted Identities

iCLASS Card Numbering[4] (select one option)

☐ **N** - No Printed Card Numbering, sales number marking only

☐ **A** - Sequential Matching Encoded/Printed (Laser Engraved)

☐ **B** - Sequential Encoded/Sequential Non-Matching Printed (Laser Engraved)

☐ **C** - Random Encoded/Non-Matching Sequential Printed (Laser Engraved)

Option - Custom Artwork[3]

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

Enter your final card options from check boxes above. Example: 822F4PPGGANA

Final Part Number	822	F		P					N		–		(Options #)

DESFire EV3 Card Programming Information

Format Number	Field Name(s) e.g. Facility Code	Value	QTY	Encoded Start Number	Encoded Stop Number
HID Elite ICE/MOB #				Printed Start Number	Printed Stop Number

iCLASS Card Programming Information

Format Number	Field Name(s) e.g. Facility Code	Value	QTY	Encoded Start Number	Encoded Stop Number
HID Elite ICE				Printed Start Number	Printed Stop Number

[1] Third party applications are required to support random UID, if in doubt, consult with the application vendor. Card allows free create/delete of third-party applications.

[2] Cards ordered with plain white front and back packaging, or with custom artwork, will still have the HID logo and reference artwork "HID" printed in the lower left-hand corner. A custom part number is required to omit the HID logo and reference artwork.

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

[4] The printed card number, sales order reference and additional programming designators are placed in the bottom right-hand corner on the back of the card. A custom part number is required to omit this marking from the card.

MIFARE DESFire EV3 + iCLASS 32K + Prox Card: High Security Profile - 832

Best in class security and privacy on EV3, programmed with an enhanced application that leverages the new features of EV3 plus a Secure Identity Object (SIO). Offers iCLASS and 125kHz technology to simplify card issuance for diverse systems or migration projects.

DESFire EV3 Compatibility: Supported by HID Signo readers with firmware 10.0.2.2 or higher.

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

Base Model	☒ **832 Composite (40% Polyester/PVC)**

MIFARE DESFire EV3 Memory Size
☒ **F** - 8K Bytes

iCLASS 32K Memory Configuration
☐ **3** - 32k bit (4K bytes) application areas 16k/2+16k/1

☐ **4** - 32k bits (4K bytes) application areas 16k/16+16k/1

DESFire Secure Identity Object Programming[1]
☒ **P** - Programmed with enhanced EV3 application with Secure Identity Object (SIO)
Based on random UID for improved privacy of user data.
Compatible with Signo Reader firmware 10.0.2.2 or higher.
This profile is not compatible with iCLASS/MultiCLASS rev E.

iCLASS Programming (select one option)
☐ **P** - Programmed with Secure Identity Object (SIO)

☐ **S** - Programmed with Secure Identity Object (SIO) and standard iCLASS access
control application

☐ **H** - Programmed with standard iCLASS access control application

☐ **V** - Unprogrammed for use with iCLASS SE Encoder (SIO programming only)

☐ **C** - Unprogrammed for use with iCLASS SE Encoder
(standard iCLASS application programming only)

125kHz Programming (select one option)
☐ **P** - Programmed with HID Prox or Indala format.

☐ **N** - Unprogrammed HID Prox for iCLASS SE encoder (CP1000)

Front Packaging (select one option)
☐ **G** - Plain White with Gloss Finish

☐ **C** - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[2]

Back Packaging (select one option)
☐ **G** - Plain White with Gloss Finish[2]

☐ **1** - Plain White with Gloss Finish with Magnetic Stripe[2]

☐ **C** - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[2,3]

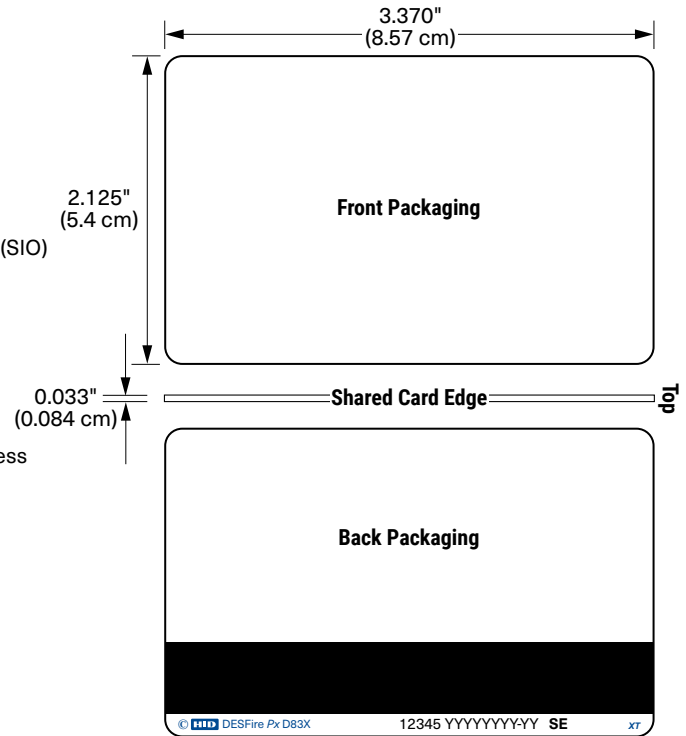☐ **3** - Custom Artwork with Gloss Finish with Magnetic Stripe – Specify Custom Artwork Number[2,3]

DESFire Card Numbering[4] (select one option)
☐ **N** - No Printed Card Numbering

☐ **A** - Sequential Matching Encoded/Printed (Laser Engraved)

☐ **B** - Sequential Encoded/Sequential Non-Matching Printed (Laser Engraved)

☐ **C** - Random Encoded/Non-Matching Sequential Printed (Laser Engraved)

Slot Punch
☒ **N** - No Slot Punch.

IMPORTANT – 832 credentials do not allow a slot punch due to antenna design.
Use a badge holder to attach this card to a lanyard or badge clip.

3.370"
(8.57 cm)

2.125"
(5.4 cm)

Front Packaging

0.033"
(0.084 cm)

Shared Card Edge ──── Top

Back Packaging

© HID DESFire *Px* D83X   12345 YYYYYYYY-YY **SE** *xT*

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

iCLASS Card Numbering[4] (select one option)

☐ **N** - No Printed Card Numbering

☐ **A** - Sequential Matching Encoded/Printed (Laser Engraved)

☐ **B** - Sequential Encoded/Sequential Non-Matching Printed (Laser Engraved)

☐ **C** - Random Encoded/Non-Matching Sequential Printed (Laser Engraved)

125 KHz Card Numbering[4]

☐ **N** - No Printed Card Numbering

☐ **A** - Sequential Matching Encoded/Printed (Laser Engraved)

☐ **B** - Sequential Encoded/Sequential Non-Matching Printed (Laser Engraved)

☐ **C** - Random Encoded/Non-Matching Sequential Printed (Laser Engraved)

Option - Custom Artwork[1]

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

Enter your final card options from check boxes above. Example: 832F4PPPGGANAA

Final Part Number	832	F		P					N			–		(Options #)

DESFire EV3 Card Programming Information

Format Number	Field Name(s) e.g. Facility Code	Value	QTY	Encoded Start Number	Encoded Stop Number
HID Elite ICE				Printed Start Number	Printed Stop Number

iCLASS Card Programming Information

Format Number	Field Name(s) e.g. Facility Code	Value	QTY	Encoded Start Number	Encoded Stop Number
HID Elite ICE				Printed Start Number	Printed Stop Number

125KHz Card Programming Information

Format Number	Field Name(s) e.g. Facility Code	Value	QTY	Encoded Start Number	Encoded Stop Number
				Printed Start Number	Printed Stop Number

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[1] Third party applications are required to support random UID, if in doubt, consult with the application vendor. Card allows free create/delete of third-party applications.

[2] Cards ordered with plain white front and back packaging, or with custom artwork, will still have the HID logo and reference artwork "HID" printed in the lower left-hand corner. A custom part number is required to omit the HID logo and reference artwork.

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

[4] The printed card number, sales order reference and additional programming designators are placed in the bottom right-hand corner on the back of the card. A custom part number is required to omit this marking from the card.

MIFARE DESFire EV3 + iCLASS Card: Compatibility Profile - 821

Offers the flexibility of DESFire EV3 backwards compatibility with iCLASS SE readers and third-party applications that rely on static UID. Programmed additionally with the enhanced application that leverages the new features of EV3 plus a Secure Identity Object (SIO) that is supported by HID Signo readers with firmware 10.0.2.2 or greater. Offers iCLASS technology to simplify card issuance for diverse systems or migration projects.

DESFire EV3 Compatibility: Supported by HID Signo reader, iCLASS SE and multiCLASS SE.

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

Base Model	☒ 821 Composite (40% Polyester/PVC)

MIFARE DESFire EV3 Memory Size
☒ **F** - 8K Bytes

iCLASS 32K Memory Configuration
☐ **3** - 32k bit (4K bytes) application areas 16k/2+16k/1

☐ **4** - 32k bits (4K bytes) application areas 16k/16+16k/1

DESFire Secure Identity Object Programming[1]
☐ **P** - Programmed with enhanced EV3 application with Secure Identity Object (SIO) plus an additional backwards compatible EV1 application with SIO.

☐ **V** - Unprogrammed for use with iCLASS SE Encoder (EV1 compatible SIO application programming only)

iCLASS Programming (select one option)
☐ **P** - Programmed with Secure Identity Object (SIO)

☐ **S** - Programmed with Secure Identity Object (SIO) and standard iCLASS access control application

☐ **H** - Programmed with standard iCLASS access control application

☐ **V** - Unprogrammed for use with iCLASS SE Encoder (SIO programming only)

☐ **C** - Unprogrammed for use with iCLASS SE Encoder (standard iCLASS application programming only)

Front Packaging (select one option)
☐ **G** - Plain White with Gloss Finish

☐ **C** - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[1]

Back Packaging (select one option)
☐ **G** - Plain White with Gloss Finish[2]

☐ **1** - Plain White with Gloss Finish with Magnetic Stripe[2]

☐ **C** - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[2,3]

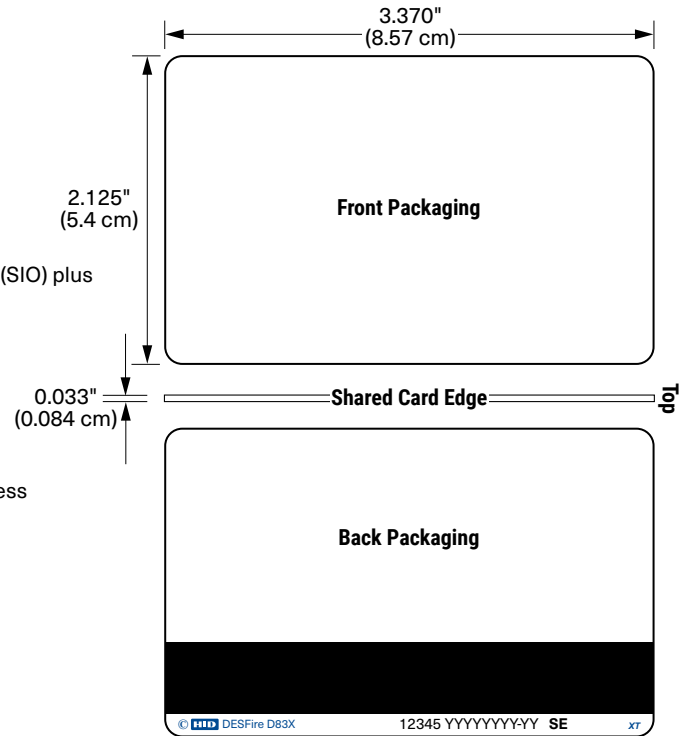☐ **3** - Custom Artwork with Gloss Finish with Magnetic Stripe – Specify Custom Artwork Number[2,3]

DESFire Card Numbering[4] (select one option)
☐ **N** - No Printed Card Numbering, sales number marking only

☐ **A** - Sequential Matching Encoded/Printed (Laser Engraved)

☐ **B** - Sequential Encoded/Sequential Non-Matching Printed (Laser Engraved)

☐ **C** - Random Encoded/Non-Matching Sequential Printed (Laser Engraved)

Slot Punch
☒ **N** - No Slot Punch.

IMPORTANT – 822 credentials do not allow a slot punch due to antenna design. Use a badge holder to attach this card to a lanyard or badge clip.

3.370"
(8.57 cm)

2.125"
(5.4 cm)

Front Packaging

0.033"
(0.084 cm)

Shared Card Edge — Top

Back Packaging

© **HID** DESFire D83X   12345 YYYYYYYY-YY **SE**   xT

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

iCLASS Card Numbering⁴ (select one option)

☐ **N** - No Printed Card Numbering, sales number marking only

☐ **A** - Sequential Matching Encoded/Printed (Laser Engraved)

☐ **B** - Sequential Encoded/Sequential Non-Matching Printed (Laser Engraved)

☐ **C** - Random Encoded/Non-Matching Sequential Printed (Laser Engraved)

Option - Custom Artwork³

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

Enter your final card options from check boxes above. Example: 821F4PPGGANA

Final Part Number	821	F							N		–		(Options #)

DESFire EV3 Card Programming Information

Format Number	Field Name(s) e.g. Facility Code	Value	QTY	Encoded Start Number	Encoded Stop Number
HID Elite ICE				Printed Start Number	Printed Stop Number

iCLASS Card Programming Information

Format Number	Field Name(s) e.g. Facility Code	Value	QTY	Encoded Start Number	Encoded Stop Number
HID Elite ICE				Printed Start Number	Printed Stop Number

[1] Card allows free create/delete of third-party applications.

[2] Cards ordered with plain white front and back packaging, or with custom artwork, will still have the HID logo and reference artwork "**HID**" printed in the lower left-hand corner. A custom part number is required to omit the HID logo and reference artwork.

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

[4] The printed card number, sales order reference and additional programming designators are placed in the bottom right-hand corner on the back of the card. A custom part number is required to omit this marking from the card.

MIFARE DESFire EV3 + iCLASS + Prox Card: Compatibility Profile - 831

Offers the flexibility of DESFire EV3 backwards compatibility with iCLASS SE readers and third-party applications that rely on static UID. Programmed additionally with the enhanced application that leverages the new features of EV3 plus a Secure Identity Object (SIO) that is supported by HID Signo readers with firmware 10.0.2.2 or greater. Offers iCLASS and 125kHz technology to simplify card issuance for diverse systems or migration projects.

Compatibility: Supported by HID Signo reader, iCLASS SE and multiCLASS SE.

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

Base Model	☒ **821 Composite (40% Polyester/PVC)**

MIFARE DESFire EV3 Memory Size
- ☒ **F** - 8K Bytes

iCLASS 32K Memory Configuration
- ☐ **3** - 32k bit (4K bytes) application areas 16k/2+16k/1
- ☐ **4** - 32k bits (4K bytes) application areas 16k/16+16k/1

DESFire Secure Identity Object Programming[1]
- ☐ **P** - Programmed with enhanced EV3 application with Secure Identity Object (SIO) plus an additional backwards compatible EV1 application with SIO.
- ☐ **V** - Unprogrammed for use with iCLASS SE Encoder (EV1 compatible SIO application programming only)

iCLASS Programming (select one option)
- ☐ **P** - Programmed with Secure Identity Object (SIO)
- ☐ **S** - Programmed with Secure Identity Object (SIO) and standard iCLASS access control application
- ☐ **H** - Programmed with standard iCLASS access control application
- ☐ **V** - Unprogrammed for use with iCLASS SE Encoder (SIO programming only)
- ☐ **C** - Unprogrammed for use with iCLASS SE Encoder (standard iCLASS application programming only)

Prox Programming (select one option)
- ☐ **P** - Programmed with HID Prox or Indala format.
- ☐ **N** - Unprogrammed HID Prox for iCLASS SE encoder (CP1000)

Front Packaging (select one option)
- ☐ **G** - Plain White with Gloss Finish
- ☐ **C** - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[2]

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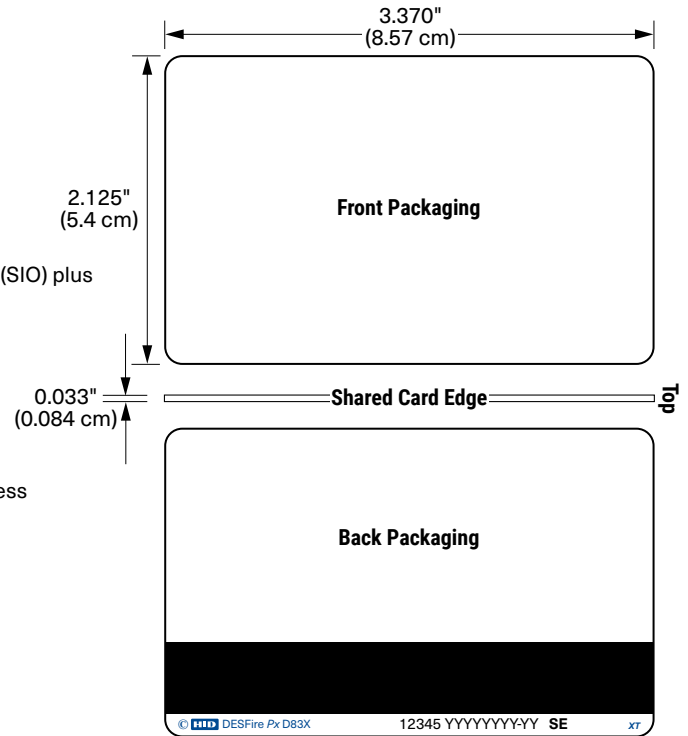- ☐ **3** - Custom Artwork with Gloss Finish with Magnetic Stripe – Specify Custom Artwork Number[2,3]

DESFire Card Numbering[4] (select one option)
- ☐ **N** - No Printed Card Numbering
- ☐ **A** - Sequential Matching Encoded/Printed (Laser Engraved)
- ☐ **B** - Sequential Encoded/Sequential Non-Matching Printed (Laser Engraved)
- ☐ **C** - Random Encoded/Non-Matching Sequential Printed (Laser Engraved)

Slot Punch
- ☒ **N** - No Slot Punch.

IMPORTANT – 831 credentials do not allow a slot punch due to antenna design. Use a badge holder to attach this card to a lanyard or badge clip.

3.370" (8.57 cm)

2.125" (5.4 cm)

Front Packaging

0.033" (0.084 cm)

Shared Card Edge — Top

Back Packaging

© **HID** DESFire *Px* D83X   12345 YYYYYYYY-YY **SE**   *xt*

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

iCLASS Card Numbering[4] (select one option)

☐ **N** - No Printed Card Numbering, sales number marking only

☐ **A** - Sequential Matching Encoded/Printed (Laser Engraved)

☐ **B** - Sequential Encoded/Sequential Non-Matching Printed (Laser Engraved)

☐ **C** - Random Encoded/Non-Matching Sequential Printed (Laser Engraved)

125 KHz Card Numbering[4]

☐ **N** - No Printed Card Numbering

☐ **A** - Sequential Matching Encoded/Printed (Laser Engraved)

☐ **B** - Sequential Encoded/Sequential Non-Matching Printed (Laser Engraved)

☐ **C** - Random Encoded/Non-Matching Sequential Printed (Laser Engraved)

Option - Custom Artwork[1]

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

Enter your final card options from check boxes above. Example: 831F4PPPGGANAA

Final Part Number	831	F								N			−		(Options #)

DESFire EV3 Card Programming Information

Format Number	Field Name(s) e.g. Facility Code	Value	QTY	Encoded Start Number	Encoded Stop Number
HID Elite ICE				**Printed Start Number**	**Printed Stop Number**

iCLASS Card Programming Information

Format Number	Field Name(s) e.g. Facility Code	Value	QTY	Encoded Start Number	Encoded Stop Number
HID Elite ICE				**Printed Start Number**	**Printed Stop Number**

125KHz Card Programming Information

Format Number	Field Name(s) e.g. Facility Code	Value	QTY	Encoded Start Number	Encoded Stop Number
				Printed Start Number	**Printed Stop Number**

[1] Card allows free create/delete of third-party applications.

[2] Cards ordered with plain white front and back packaging, or with custom artwork, will still have the HID logo and reference artwork "HID" printed in the lower left-hand corner. A custom part number is required to omit the HID logo and reference artwork.

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

[4] The printed card number, sales order reference and additional programming designators are placed in the bottom right-hand corner on the back of the card. A custom part number is required to omit this marking from the card.

MIFARE DESFire EV3 + iCLASS 32K Card: Custom Profile - 820

Available customized to bespoke specifications, or unprogrammed for full in-field personalization compatible with EV1, EV2, or EV3 compliant solutions. Offers iCLASS technology to simplify card issuance for diverse systems or migration projects.

Compatibility: Supported by custom profile HID Signo, iCLASS SE and multiCLASS SE readers.

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

Card without SIO encoding
Base Model   ☒ **820 Composite (40% Polyester/PVC)**

MIFARE DESFire EV3 Memory Size
☒ **F** - 8K Bytes

iCLASS 32K Memory Configuration
☐ **3** - 32k bit (4K bytes) application areas 16k/2+16k/1

☐ **4** - 32k bits (4K bytes) application areas 16k/16+16k/1

DESFire Programming[1] (select one option)
☐ **N** - Unprogrammed DESFire EV3 for use with iCLASS SE Encoder (EV1 custom encoding only) or third-party EV1, EV2, or EV3 applications.

☐ **S** - Custom MIFARE DESfire EV1, EV2, or EV3 programming, requires custom part number.

iCLASS Programming (select one option)
☐ **P** - Programmed with Secure Identity Object (SIO)

☐ **S** - Programmed with Secure Identity Object (SIO) and standard iCLASS access control application

☐ **H** - Programmed with standard iCLASS access control application

☐ **V** - Unprogrammed for use with iCLASS SE Encoder (SIO programming only)

☐ **C** - Unprogrammed for use with iCLASS SE Encoder (standard iCLASS application programming only)

Front Packaging (select one option)
☐ **G** - Plain White with Gloss Finish

☐ **C** - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[3]

Back Packaging (select one option)
☐ **G** - Plain White with Gloss Finish[2]

☐ **1** - Plain White with Gloss Finish with Magnetic Stripe[2]

☐ **C** - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[2,3]

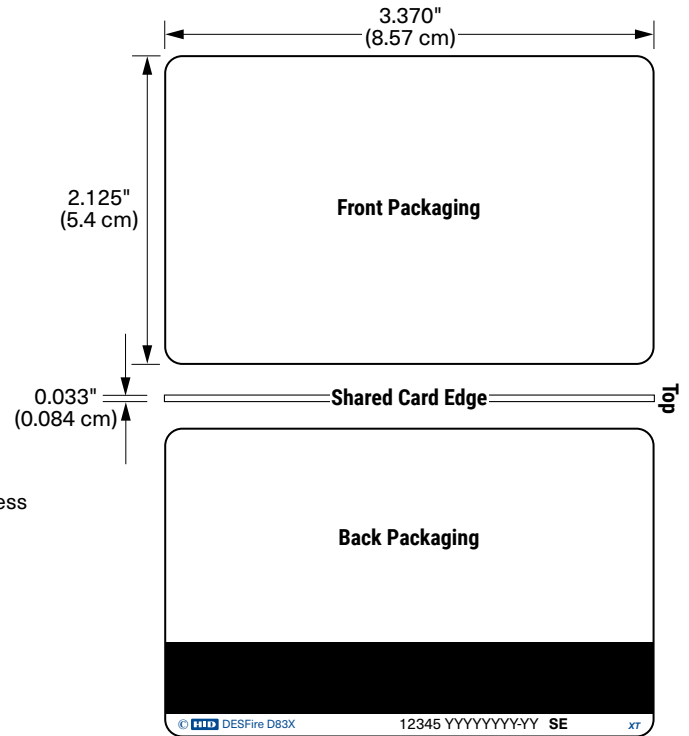☐ **3** - Custom Artwork with Gloss Finish with Magnetic Stripe – Specify Custom Artwork Number[2,3]

DESFire Card Numbering[4] (select one option)
☐ **N** - No Printed Card Numbering, sales number marking only

☐ **A** - Sequential Matching Encoded/Printed (Laser Engraved)

☐ **B** - Sequential Encoded/Sequential Non-Matching Printed (Laser Engraved)

☐ **C** - Random Encoded/Non-Matching Sequential Printed (Laser Engraved)

☐ **Z** - Reversed UID (CSN) decimal card numbering only (Laser Engraved)[5]

Slot Punch
☒ **N** - No Slot Punch.

IMPORTANT – 820 credentials do not allow a slot punch due to antenna design.
Use a badge holder to attach this card to a lanyard or badge clip.

**3.370"
(8.57 cm)**

**2.125"
(5.4 cm)**

Front Packaging

**0.033"
(0.084 cm)**

Shared Card Edge   **Top**

Back Packaging

© **HID** DESFire D83X   12345 YYYYYYYY-YY **SE**   *xt*

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

iCLASS Card Numbering[4] (select one option)

☐ **N** - No Printed Card Numbering, sales number marking only

☐ **A** - Sequential Matching Encoded/Printed (Laser Engraved)

☐ **B** - Sequential Encoded/Sequential Non-Matching Printed (Laser Engraved)

Option - Custom Artwork[1]

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

Enter your final card options from check boxes above. Example: 820F4NPGGNNA

Final Part Number	820	F							N		–		(Options #)

DESFire EV3 Card Programming Information

Format Number	Field Name(s) e.g. Facility Code	Value	QTY		Encoded Start Number	Encoded Stop Number
					Printed Start Number	**Printed Stop Number**

iCLASS Card Programming Information

Format Number	Field Name(s) e.g. Facility Code	Value	QTY		Encoded Start Number	Encoded Stop Number
HID Elite ICE					**Printed Start Number**	**Printed Stop Number**

[1] For custom programming options please contact your local sales or pre-sales representative.

[2] Cards ordered with plain white front and back packaging, or with custom artwork, will still have the HID logo and reference artwork "**HID**" printed in the lower left-hand corner. A custom part number is required to omit the HID logo and reference artwork.

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

[4] The printed card number, sales order reference and additional programming designators are placed in the bottom right-hand corner on the back of the card. A custom part number is required to omit this marking from the card.

[5] If selecting DESFire marking option "Z" there will not be room to mark any other technologies.

Powering
Trusted Identities

MIFARE DESFire EV3 + iCLASS 32k + Prox Card: Custom Profile - 830

Migration solution from Proximity to fully customized bespoke DESfire specifications, or unprogrammed for full in-field personalization with EV1, EV2, or EV3 compliant solutions. Offers iCLASS and 125kHz technology to simplify card issuance for diverse systems or migration projects.

Compatibility: Supported by custom profile HID Signo, iCLASS SE and multiCLASS SE readers.

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

Card <u>without</u> SIO encoding + Prox

Base Model	☒ 830 Composite (40% Polyester/PVC)

MIFARE DESFire EV3 Memory Size
☒ **F** - 8K Bytes DESFire EV3

iCLASS 32K Memory Configuration
☐ **3** - 32k bit (4K bytes) application areas 16k/2+16k/1
☐ **4** - 32k bits (4K bytes) application areas 16k/16+16k/1

DESFire Programming[1] (select one option)
☐ **N** - Unprogrammed for use with iCLASS SE Encoder
(EV1 custom encoding only) or third-party EV1, EV2, or EV3 applications.
☐ **S** - Custom EV1, EV2, or EV3 programming (custom part number required).

iCLASS Programming (select one option)
☐ **P** - Programmed with Secure Identity Object (SIO)
☐ **S** - Programmed with Secure Identity Object (SIO) and standard iCLASS access control application
☐ **H** - Programmed with standard iCLASS access control application
☐ **V** - Unprogrammed for use with iCLASS SE Encoder (SIO programming only)
☐ **C** - Unprogrammed for use with iCLASS SE Encoder
(standard iCLASS application programming only)

Prox Programming (select one option)
☐ **P** - Programmed with HID Prox or Indala format.
☐ **N** - Unprogrammed HID Prox for iCLASS SE encoder (CP1000)

Front Packaging (select one option)
☐ **G** - Plain White with Gloss Finish
☐ **C** - Custom Artwork with Gloss Finish – Specify Custom Artwork Number[3]

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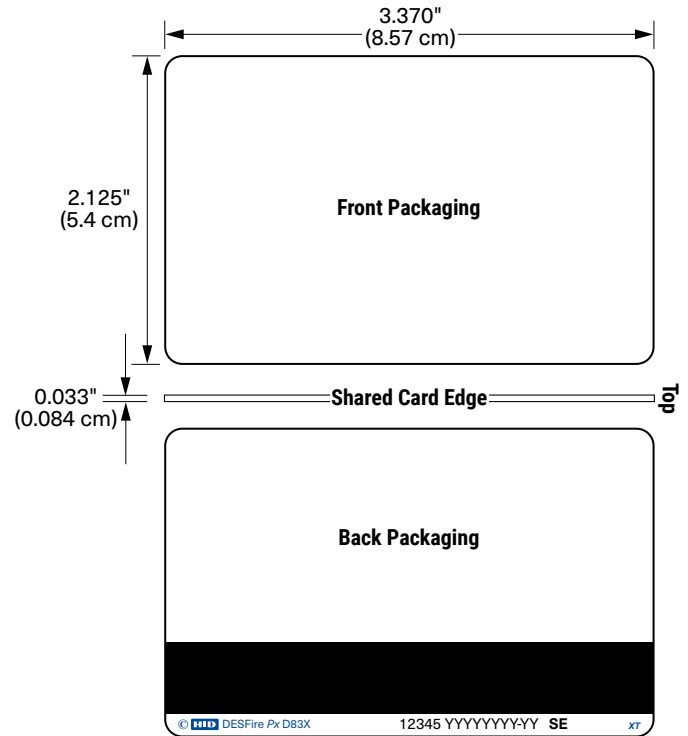☐ **3** - Custom Artwork with Gloss Finish with Magnetic Stripe – Specify Custom Artwork Number[2,3]

13.56 MHz DESFire Card Numbering[3] (select one option)
☐ **N** - No Printed Card Numbering
☐ **A** - Sequential Matching Encoded/Printed (Laser Engraved)[4]
☐ **B** - Sequential Encoded/Sequential Non-Matching Printed (Laser Engraved)
☐ **C** - Random Encoded/Non-Matching Sequential Printed (Laser Engraved)
☐ **Z** - Reversed UID (CSN) Decimal card numbering only (Laser Engraved)[5]

Slot Punch
☒ **N** - No Slot Punch.

IMPORTANT – 830 credentials do not allow a slot punch due to antenna design.
Use a badge holder to attach this card to a lanyard or badge clip.

3.370"
(8.57 cm)

2.125"
(5.4 cm)

Front Packaging

0.033"
(0.084 cm)

Shared Card Edge | Top

Back Packaging

© **HID** DESFire *Px* D83X   12345 YYYYYYYY-YY **SE**   *xt*

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

Powering
Trusted Identities

iCLASS Card Numbering[4] (select one option)

☐ **N** - No Printed Card Numbering, sales number marking only

☐ **A** - Sequential Matching Encoded/Printed (Laser Engraved)

☐ **B** - Sequential Encoded/Sequential Non-Matching Printed (Laser Engraved)

125 KHz Card Numbering[3]

☐ **N** - No Printed Card Numbering

☐ **A** - Sequential Matching Encoded/Printed (Laser Engraved)

☐ **B** - Sequential Encoded/Sequential Non-Matching Printed (Laser Engraved)

☐ **C** - Random Encoded/Non-Matching Sequential Printed (Laser Engraved)

Option - Custom Artwork[3]

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

Enter your final card options from check boxes above. Example: 830F4NPPGGNNAA

Final Part Number	830	F								N			–		(Options #)

DESFire EV3 Card Programming Information

Format Number	Field Name(s) e.g. Facility Code	Value	QTY	Encoded Start Number	Encoded Stop Number
				Printed Start Number	Printed Stop Number

iCLASS Card Programming Information

Format Number	Field Name(s) e.g. Facility Code	Value	QTY	Encoded Start Number	Encoded Stop Number
HID Elite ICE/MOB #				Printed Start Number	Printed Stop Number

125KHz Card Programming Information

Format Number	Field Name(s) e.g. Facility Code	Value	QTY	Encoded Start Number	Encoded Stop Number
				Printed Start Number	Printed Stop Number

[1] For custom programming options please contact your local sales or pre-sales representative.

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

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

[4] The printed card number, sales order reference and additional programming designators are placed in the bottom right-hand corner on the back of the card. A custom part number is required to omit this marking from the card.

[5] If selecting DESFire marking option "Z" there will not be room to mark any other technologies.

Revision history

Date	Description	Revision
January 2022	Initial release.	A.0

HID

hidglobal.com

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