



# MIFARE® DESFire® Credentials



## Overview

MIFARE® DESFire® smart credentials offer the highest in physical security from Schlage and deliver the perfect balance level of security, speed and performance. Its open protocol design allows seamless integration of other applications in addition to access control, such as cashless vending, cafeteria services, transportation, secure printing and more. All MIFARE credentials from Schlage are encrypted and secure, but also based on open, global standards, ensuring a future of headache-free flexibility and scalability.

## Encryption Key

- Configured with our default encryption key or with a custom key developed by Schlage Custom Encryption Key Service (SCEKS)
- Can be configured with encryption keys developed by NXP manufacturing partners

## Schlage Credential Services

- Programmed with industry standard formats as well as Schlage CardTrax™ Credential Sequencing Program
- Custom bit format development
- Custom artwork

## Hardware Interoperability

- MT and MTB multi-technology readers
- Schlage RC reader controllers
- All Schlage AD, NDE, LE, XE360 Series and Schlage Control® electronic locks
- See [Compatibility Guide](#) for additional details

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## Features & Benefits

- Flexible file system/flexible memory organization
- Fast and secure data transmission
- 128 AES encryption used for authenticity, confidentiality and integrity
- Available with single technology 13.56 MHz (new applications) or multi-technology 125 kHz + 13.56 MHz (migrating)
- Multiple memory options and form factors to fit any business need
- Open, standards-based platform easily accommodates applications of your choice
- Lifetime warranty against manufacturer's defects
- Compatible with all Schlage reader and electronic locks and most industry manufacturers' readers and electronic locks when a Schlage custom encryption key is used



Clamshell card



Wristbands



ISO glossy card



Keyfob/thin keyfob



PVC adhesive patch



PVC adhesive disc



Check out our Schlage  
Credential Services

## Single Technology (13.56 MHz) Smart Credentials

Ideal for new installations, Schlage MIFARE® DESFire® contactless credentials utilizing high frequency (13.56 MHz) technology, offers the highest level of physical security and encryption, as well as the greatest level of flexibility and scalability for future-readiness.



13.56 MHz MIFARE Credentials						
Model number	8440	8540	8740	8443	8543	8643T
Credential type	Clamshell	ISO glossy white <sup>1</sup>	PVC adhesive patch	Clamshell	ISO glossy white <sup>1</sup>	Thin keyfob
Credential technology	MIFARE DESFire EV1 <sup>4</sup>	MIFARE DESFire EV1 <sup>4</sup>	MIFARE DESFire EV1 <sup>4</sup>	MIFARE DESFire EV3 <sup>4</sup>	MIFARE DESFire EV3 <sup>4</sup>	MIFARE DESFire EV3 <sup>4</sup>
Magnetic stripe	No	Yes <sup>2</sup>	No	No	Yes <sup>2</sup>	No
Dimensions (H x W x T)	3.37" x 2.125" x 0.075"	3.37" x 2.125" x 0.033"	3.37" x 2.125" x 0.033"	3.37" x 2.125" x 0.075"	3.37" x 2.125" x 0.033"	1.77" x 1.18" x .11"
Slot punch <sup>3</sup> (printed guide included on ISO cards)	Vertical (standard)	Vertical or horizontal (optional)	Vertical or horizontal (optional)	Vertical (standard)	Vertical or horizontal (optional)	Keyring
Memory capacity	4K byte/32k bit	4K byte/32k bit	4K byte/32k bit	4K byte/32k bit	4K byte/32k bit	4K byte/ 32k bit

## Multi-Technology (125 kHz + 13.56 MHz) Smart Credentials

Highly secure, flexible and future-ready, Schlage multi-technology credentials combine 125 kHz proximity and 13.56 MHz MIFARE® DESFire® technologies into one contactless card. The credentials can be read by both proximity readers and smart readers, allowing customers to improve their existing legacy applications while migrating at their own pace.



125 kHz/13.56 MHz Multi-Technology Credentials			
Model number	8940	8943	8843T
Credential type	ISO glossy white <sup>1</sup>	ISO glossy white <sup>1</sup>	Thin keyfob
Credential technology	Proximity/MIFARE DESFire EV1 <sup>4</sup>	Proximity/MIFARE DESFire EV3 <sup>4</sup>	Proximity/MIFARE DESFire EV3 <sup>4</sup>
Magnetic stripe	Yes <sup>2</sup>	Yes <sup>2</sup>	No
Dimensions (H x W x T)	3.37" x 2.125" x 0.033"	3.37" x 2.125" x 0.033"	1.77" x 1.18" x .11"
Slot punch <sup>3</sup> (printed guide included on ISO cards)	Vertical or horizontal (optional)	Vertical or horizontal (optional)	Keyring
Memory capacity	4K byte/32k bit	4K byte/32k bit	4K byte/32k bit

**Limited lifetime warranty** – Credentials have a lifetime warranty against manufacturers defects. See sales policy for complete warranty details.

- ISO glossy white style credentials are made from composite material, are printable, and can include a magnetic stripe as an option.
- Add MI to the model number for a magnetic stripe when ordering. Vertical slot punch not available on magnetic stripe cards.
- Add SPV (vertical) or SPH (horizontal) your credential order for a slot punch. Vertical slot punch comes standard on all clamshell order. Vertical and horizontal slot punch are optional on ISO cards. Vertical slot punch not available on magnetic stripe cards.
- All Schlage MIFARE credentials comply with the 14443 ISO standard.



**As we consolidate our DESFire® offering to standardize on EV3, please reference the latest price book for a cross reference guide when transitioning from EV1 or EV2.**