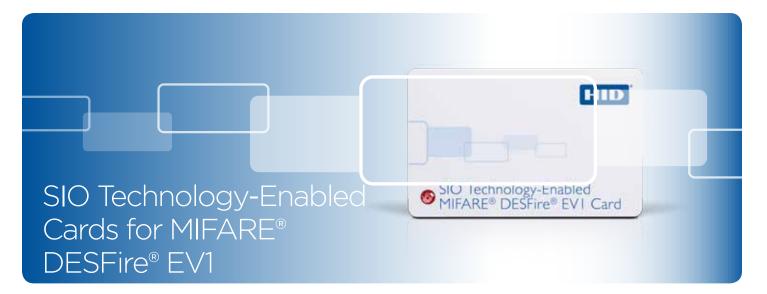
PHYSICAL ACCESS SOLUTIONS







SIO TECHNOLOGY-ENABLED CARDS FOR MIFARE® DESFIRE® EV1: 3700, 3750

- **Supports Secure Identity Object**[™] **(SIO)** Multi-layered security beyond the card technology, providing added protection to identity data.
- Trusted Identity Platform[™] (TIP) enabled Provides trusted identity within a secure ecosystem of interoperable products.
- Open configuration MIFARE DESFire EV1 is based on open global standards for security, and is interoperable with existing MIFARE DESFire infrastructure.
- Multi-layered security MIFARE DESFire EV1 built-in mutual authentication, AES 128, DES and triple-DES data encryption and unique 56-bit serial number, and CC EAL 4+ certified.

HID Global SIOs deliver three key benefits: portability, security and extensibility.

 SIOs are defined using open standards that can support any piece of data, including data for access control, biometrics, PC logon, and many other applications.



HID SIO Technology-Enabled (SE) Cards for MIFARE® DESFire® EV1 are part of the next-generation access control platform and open ecosystem based on HID's Trusted Identity Platform (TIP) architecture. The SE Card was designed to provide additional key diversification, authentication, encryption and portability for advanced applications, unprecedented mobility, heightened security and enhanced performance.

HID Global's next-generation access control platform goes beyond the traditional smart card model to offer a secure, standardsbased, technology-independent and flexible identity data structure based on Secure Identity Object (SIO), a new HID portable credential methodology. The smart cards are designed for diverse applications that demand the highest levels of security, including access control and biometric identification, cashless vending, public transportation, ticketing and customer loyalty cards. Available in PVC and Composite PET/PVC card construction, the SE Card is exceptionally durable and can accept an embeddable contact chip for logical access and biometric ID systems.

13.56 MHz SE Cards for MIFARE DESFire EV1 read/write technology can be integrated into a single ISO standard thickness card (custom programming with Indala formats is also available).

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SIO TECHNOLOGY-ENABLED CARDS FOR MIFARE DESFIRE EV1 FEATURES

- 13.56 MHz MIFARE* DESFire* EV1 read/write technology.
 Compliant with ISO 14443A 1-4.
- Transaction times less than 100 milliseconds for a typical secure ticketing transaction.
- 8 KBytes of dynamic memory arranged in easy-to-define application folders and data files.
- Durability Passive, no-battery design allows for an infinite number of reads. Strong and resistant to damage.
- Ordering Options Magnetic stripe, external card numbering, custom artwork and contact smart chip module.
- Photo ID Compatible True credit card thickness for printing directly to the card with a direct image or thermal transfer printer.
 PVC card surface is optimized for dye sublimation printing.

HIGHER SECURITY

- CC EAL 4+ certified.
- Trusted Identity Platform (TIP) Enabled Provides trusted identity within a secure ecosystem of interoperable products.
- Multi-Layered Security Ensures data authenticity and privacy through the multi-layered security of HID's SIO.
- SIO Data Binding Inhibits data cloning by binding an object to a specific credential.
- Mutual authentication, AES 128, DES and triple-DES data encryption and unique 56-bit serial number.
- Expanded Elite[™] Program Extends security by providing unique keys for each application area (sector) within an SE Card for MIFARE DESFire EV1.
- Visual security/anti-counterfeiting features (holograms, ultra-violet fluorescent inks, micro-printing or custom logo).





ASSA ABLOY

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North America: +1 949 732 2000 Toll Free: 1 800 237 7769 Europe, Middle East, Africa: +49 6123 791 0 Asia Pacific: +852 3160 9800 Latin America: +52 477 779 1492

SPECIFICATIONS

Base Part Number	SE Card for MIFARE DESFire EV1 8K - 3700 Composite PET/PVC SE Card for MIFARE DESFire EV1 8k - 3750
Description	SE Card for MIFARE DESFire EV1, ISO Thick, Photo Imageable
Card Construction	Gloss white/white PVC or PVC/Polyester Composite
Dimensions	2.125" x 3.375" x 0.070" max. (5.40 x 8.57 x 0.18 cm)
Weight	0.20 oz (6.0 g)
Operating Temperature	3700 PVC Cards: -40 to 122°F (-40 to 50°C) 3750 Composite Cards: -40 to 158°F (-40 to 70°C)
Operating Humidity	5% - 95% Non-Condensing
Operating Frequency	13.56 MHz
RF Interface	ISO 14443 A, Parts 1-4 (DESFire EV1)
Transaction Time	< 100 ms
Baud Rate	Activation at 106 kbps; Data transfer up to 848 kbps
Memory Type	EEPROM 8 Kbytes
Memory Structure	Up to 28 applications, with up to 32 files per application
Write Endurance	500,000 cycles min.
Data Retention	10 years min
Typical Maximum Read Range	Up to 4" (10 cm) Dependent upon installation conditions
Card Marking	Inkjet standard, Laser Engraving optional
Custom Graphics	Optional
Programming	Factory or Field
Operates With	iCLASS SE readers and any reader that can read DESFire or MIFARE technology.
Magnetic Stripe	Optional
Printable	Yes (white/white card)
Visual Security Options	Optional
Warranty	Lifetime - see Sales Policy for complete details