



- Optional Features:**
- Optical security with images, holograms and laser engraving
 - Additional magnetic stripe
 - Vertical slot punch for convenient use

MULTI-TECHNOLOGY HITAG SOLUTION FOR MIGRATION TO iCLASS SE® PLATFORM

- **Higher security** - Supports Secure Identity Object™ (SIO) multi-layered security provides additional protection to identity data.
- **Seamless migration** - Enables transition from HITAG to Secure Identity Object (SIO) enabled solution of the iCLASS SE® Platform for iCLASS® or MIFARE DESFire™ EV1.
- **Comprehensive interoperability** - Designed to work with existing systems of standard iCLASS, iCLASS SE and HITAG readers, helping organizations optimize their investment.

HID Global’s SIO Technology-enabled Cards for HITAG® are designed for customers using HITAG technology-based readers and are interested in moving their card population to a higher secure solution. The affordable and durable multi-technology cards enable seamless migration from 125 kHz HITAG to SIO-enabled credentials that can be simultaneously used with 13.56 MHz iCLASS® or MIFARE DESFire™ EV1.

In addition to the high frequency technology options, the cards are available with optional magnetic stripe technology to provide the widest range of backwards compatibility with existing systems.

The credentials are also tested and optimized for a wide range of readers in order to guarantee best read ranges.

Supports the iCLASS SE access control platform:

The iCLASS SE platform make access control more powerful and more secure by going beyond the traditional smart card model with multi-layered

security that is independent of the card technology. Based on HID Global’s Secure Identity Object® (SIO™) data model, the platform delivers added protection to identity data, as well as additional key diversification, authentication and encryption. These features bring enhanced card-to-reader security, increased privacy and maximum security to your access control system.

Genuine HID®: Invest with Confidence

As with all Genuine HID products, HITAG multi-technology cards are part of the broadest product line of trusted, fully interoperable secure identity solutions in the market and come with guaranteed interoperability with HID Global readers as well as a lifetime warranty.

Supported by industry-leading expertise and the strongest delivery and response platform available, Genuine HID solutions reinforce the long-standing trust that while customers purchase from HID Global, they are investing with absolute confidence.

- Programmable memory configuration with write protection by the user.
- Unique 32 bit (4 bytes) serial number.
- Support encrypted RFID data transmission as well as data integrity check.

MIFARE DESFire™ EV1

- Interoperable with existing MIFARE DESFire infrastructures.
- Ensures data authenticity and privacy.
- Transaction times are less than 100 milliseconds for a typical secure transaction.

- MIFARE DESFire EV1 is fully compliant with ISO 14443A 1-4, and has been awarded Common Criteria EAL 4+ for card security.
- 8 KB of dynamic memory is arranged in easy-to-define application folders and data files.
- DESFire mutual authentication, AES 128, DES and triple-DES data encryption and unique 56-bit serial number.
- Optional SIO data support.
- MIFARE™ and DESFire™ and HITAG™ are registered trademarks of NXP B.V. in the U.S and other jurisdictions, and are used under license.



SPECIFICATIONS

	Multi Technology iCLASS 32k / HITAG 1	Multi Technology iCLASS 32k / HITAG 2	Multi Technology MIFARE DESFire EV1 8K / HITAG 1
Base Part Number	202	202	1451
Operating frequency	13.56 MHz for iCLASS or DESFire - 125 kHz for HITAG		
Typical Maximum Read Range	iCLASS 32 kb: 2 - 3" HITAG1: up to 2.2"	iCLASS 32 kb: 2 - 3" HITAG2: up to 2.2"	MIFARE DESFire EV1 8KB: up to 1" HITAG1: up to 2"
Dimensions	2.127" x 3.375" x 0.030" max (5.40 x 8.57 x 0.076 ± 0.0076 cm)		
Construction	PVC only		
Operating Temperature	PVC: -31° to 122° F (-35° to 50° C)		
Weight	0.19 oz (5.5g)	0.19 oz (5.5g)	0.19 oz (5.5g)
Memory Size / Application Areas	iCLASS: 32 Kb with (16k/2 and 16k/1) or (16k/16 and 16k/1) HITAG1: 2048 bits	iCLASS: 32 Kb with (16k/2 and 16k/1) or (16k/16 and 16k/1) HITAG2: 256 bits	MIFARE DESFire EV1 8KB: up to 28 applications with up to 32 files per application HITAG1: 2048 bits
Write Endurance	Min 100,000 erase/write cycles		
Data Retention	Minimum 10 years		
Contact Smart Chip Embaddable	No		
Magnetic Stripe	Optional		
Printable	Yes (white/white card) Usable with direct imaging and thermal transfer printers (from HID but also from other suppliers), exclusion areas for printing are defined		
Slot Punch	Vertical only		
HID Managed Services	Customized cards (including custom artwork) are available through HID Secure Identity Services™		
Visual Security Options	Optional including hologram, anti-counterfeiting, holographic foil		
Additional Security Options	For iCLASS: Corporate 1000, SE-Elite		
Warranty	Lifetime, see complete warranty policy for details		



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