

# SmartTRANS™

13.56 MHz MIFARE® and DESFire® Contactless Cards and Readers



HID Global introduces its new 13.56 MHz ISO 14443 (MIFARE/DESFire) contactless smart card readers. In response to customer demand for a greater multitude of smart card reader solutions, HID Global has increased its product line of multiple-technology products. With its introduction, SmartID™ will offer solutions in single technology 13.56 MHz (SmartID), multi-technology 13.56 MHz + 125 kHz (SmartTRANS), multi-factor 13.56 MHz biometrics (SmartTOUCH™) and keypad authentication. This new, open architecture and highly customizable reader line augments HID's market-leading, flexible, open and highly secure iCLASS product line.

By producing the SmartID multi-technology line, HID Global asserts its commitment to support 13.56 MHz technologies. The company's offerings encompass the industry's broadest range of open standard contactless smart card products, available from over 40,000 resellers worldwide.

# SmartTRANS™ Readers

## SmartTRANS Mullion SP10 Reader

ISO 14443A Secure Reader

Base Part Number • 800-8100\*

- Choose from a variety of reader applications, including custom MIFARE, custom DESFire and FIPS 201
- Can be configured for almost any existing or new custom card population
- Reads HID Prox (125 KHz) Cards\*\*
- Outputs data over Wiegand, Clock-and-Data, RS232, RS485 or RS422 interface
- Dimensions: 5.59" x 1.81" x 0.98" (14.2 x 4.6 x 2.5 cm)
- Read Range: MIFARE and HID Prox, Up to 1.8" (4.6 cm)\*\*\*
- Additional accessory (p/n 500-8090) turns reader into single-gang electrical mount



Silver

FIPS 201 Approved. Call for details **800-872-5359**



## SmartTRANS Mullion Keypad SPK10 Reader

ISO 14443A Secure Reader

Base Part Number • 800-8110\*

- Choose from a variety of reader applications, including custom MIFARE, custom DESFire and FIPS 201
- Can be configured for almost any existing or new custom card population
- Reads HID Prox (125 KHz) Cards\*\*
- Keypad provides dual-factor authentication with a variety keypad output configurations
- Dimensions: 5.59" x 1.81" x 0.98" (14.2 cm x 4.6 cm x 2.5 cm)
- Read Range: MIFARE and HID Prox, Up to 1.8" (4.6 cm)\*\*\*
- Additional accessory (p/n 500-8090) turns reader into single-gang electrical mount



Silver

FIPS 201 Approved. Call for details **800-872-5359**



\* Multiple base part numbers available depending upon application.

\*\* Only reads HID Prox formats 26-bit (H10301) and Corporate 1000

\*\*\* Depends on installation environment and credential type

## Did You Know?

SmartTRANS 13.56 MHz and 125 kHz compatibility allows you to solve any site's migration issue with a broad variety of reader and card migration strategies.

# SmartTRANS™ Specifications



**SmartTRANS™ Mullion  
SPI0**

**SmartTRANS™ Mullion  
Keypad SPK10**

<b>Base Model Number</b>	800-8100	800-8110
<b>Dimensions</b>	5.59" x 1.81" x 0.98" (14.0 cm x 4.5 cm x 2.5 cm)	
<b>Read Range</b>	<b>MIFARE:</b> Up to 1.8" (4.6 cm); <b>HID Prox:</b> Up to 1.8" (4.6 cm)*	
<b>Mounting</b>	Mullion or Single-gang electrical box**	
<b>Power Supply</b>	4.5-16 VDC (reverse current protected); Linear supply recommended	
<b>Current Requirements</b>	1.4W/2.52W	
<b>Termination</b>	Terminal	
<b>Output Formats</b>	Wiegand, Clock-and-Data, RS232, RS485, RS422	
<b>Tamper</b>	Option	
<b>Indoor/ Outdoor</b>	Both	
<b>Warranty</b>	Two Years	

\*Only reads 26-bit and Corporate 1000 formats.

\*\* Single-gang mounting requires purchase of additional accessory

# Multi-Technology Credentials

## **MIFARE®/Prox Combo Card**

**13.56 MHz Contactless Smart Card**

**Base Part Number • 1431**

- Combine MIFARE 1K and proximity technologies to add smart card applications, such as cashless vending, corporate and campus applications, event ticketing, customer loyalty and photo ID cards, to access control systems
- Provides high security with mutual authentication, data encryption and unique 32-bit serial number and supports all HID proximity card formats, including Corporate 1000
- Photo ID compatibility allows printing directly to the card with a direct image or thermal transfer printer
- Cards can be produced with visual security and anti-counterfeiting features such as holograms, ultra-violet fluorescent inks, micro-printing or a custom logo
- Also Available in Composite Polyester / PVC and MIFARE 4K versions



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## **DESFire®/Prox Combo Card**

**13.56 MHz Contactless Smart Card**

**Base Part Number • 1451**

- Proven, Reliable Technology - Offers extremely consistent read range. Use is unaffected by body shielding or variable environmental conditions, even when close to keys and coins.
- Fast Processing and Data Communication - Transaction times are less than 100 milliseconds for a typical secure ticketing transaction.
- True Credit Card Thickness - Use with all direct image and thermal transfer printers.





**MIFARE® / HID Prox Combo Card**



**DESFire® / HID Prox Combo Card**

<b>Base Part Number</b>	<b>I431:</b> PVC 1k Card <b>I441:</b> PVC 4k Card <b>I437:</b> Composite PET/PVC 1k Card <b>I447:</b> Composite PET/PVC 4k Card	<b>I451:</b> PVC Card <b>I457:</b> Composite PET/PVC Card
<b>Read Range: *</b>		
<b>MIFARE</b>	Up to 4.0" (10.0 cm)	N/A
<b>DESFIRE</b>	N/A	Up to 4.0" (10.0 cm)
<b>HID Prox</b>	Up to 4.5" (11.5 cm)	
<b>Indala Prox</b>	N/A	
<b>Memory Size/ Application Areas</b>	1k Byte (8k bits) or 4k Bytes (32k bits)	4k Bytes (32k bits)
<b>HID Proximity 125 kHz</b>	Yes	
<b>Contact Smart Chip Module Embeddable</b>	Yes**	
<b>Wiegand Strip</b>	No	
<b>Magnetic Stripe</b>	Optional	
<b>Printable ***</b>	Yes	
<b>Standard HID Artwork</b>	Optional	
<b>Slot Punch</b>	Vertical optional	
<b>Visual Security Options</b>	Yes	
<b>Additional Security Options</b>	Corp 1000	
<b>Warranty</b>	Lifetime	

\* Dependant upon installation conditions.

\*\* Contact smart chip module not included. Ask about HID's SMARTS Program for off-the-shelf contact smart chip embedded cards.

\*\*\* Some types of printing processes can take these credentials out of ISO compliance for thickness. Consult factory for more information.