

# SmartID™ S10, SK10, SW100 and SWKI100 Readers

ISO 14443 Reader or Reader/Writer

- ▶ Custom Configurations – Completely configurable for every access control application challenge.
- ▶ Open Architecture Design – ISO 14443A MIFARE®/ DESFire® Contactless smart card, compatible for broad card interoperability.
- ▶ Data Security – Secure data transmission with 3DES encryption.
- ▶ GSA-approved – Included in the U.S. General Services Administration (GSA) FIPS 201 Approved Product List.



## ACCESS flexibility

The SmartID™ ISO 14443 reader is a flexible, highly secure and stylish contactless smart card reader ideal for customers that require a customizable reader for new or existing installations.

The SmartID™ reader offers the ultimate choice in interoperability and programmability. Its unique capabilities, such as reading any MIFARE® and/or DESFire® application data file, meets all installation requirements. Designed for a wide variety of applications from entry level access control to secure ID management, the reader family is completely configurable for every access control application challenge.

SmartID™ readers offer one of the broadest ranges of card compatibility in the industry and can be configured as a specific solution for each project (see specifications chart on opposite side for specific compatibilities). The SmartID™ reader is available with or without keypad, adding an extra layer of protection for higher security installations.

- ▶ Configuration cards can further personalize reader configurations to best match installation requirements.
- ▶ Wide voltage span (4.5-16 VDC).
- ▶ Wiegand or Clock-and-Data outputs easily interface with existing access control panels.
- ▶ Communications configurable to RS232, RS485 and RS422 for read only or read/write applications.

# Features

**Mounting** The reader easily mounts on a door mullion or single-gang electrical box (using the electrical box cover plate accessories). An LED flashes green and the beeper sounds when reader is presented with MIFARE®, MIFARE DESFire® or other reader application compatible card. The multiple LEDs and beeper can also be controlled by the host system.

**Security** MIFARE® Contactless smart card and reader platform according to the ISO 14443A. The card structure provides multi-application functionality, whereby each application is secured for read and read/write by security keys. All RF data transmission between card and reader is encrypted using mutual authentication and challenge response to prevent replay attacks. Readers and cards must have matching security keys.

MIFARE DESFire® Contactless smart card and reader platform according to ISO 14443 level 4. Featuring DES and 3DES Encryption on all RF data

transmission. The card structure provides multi-application functionality, whereby each application is secured up to 14 different user-definable security keys for read and read/write access. Readers and cards must have matching security keys

### Easily Interfaced

The SmartID™ provides flexible configurable output formats and output protocols. Reader communication supported: Wiegand, Clock-and-Data, ISO 7811 Clock-and-Data ABA Track 2 Emulation, RS232, RS422, RS485 or custom format output.

### Indoor/Outdoor Design

Rugged, weatherized polycarbonate enclosure, designed to withstand harsh environments, provides reliable performance and resistance to vandalism.

<b>* Base Model Numbers</b>	800-8020 SmartID S10 MIFARE Mullion Reader (CSN Only) 800-8030 SmartID S10 MIFARE Mullion Reader 800-8062 SmartID S10 Dual MIFARE Mullion Reader 800-8061 SmartID S10 DESFire Mullion Reader 800-8080 SmartID S10 PIVII (FIPS 201 end-point compliant), GSA Approved, Reader 800-8045 SmartID SK10 MIFARE Mullion Keypad Reader 800-8077 SmartID SK10 Dual MIFARE Mullion Keypad Reader 800-8076 SmartID SK10 DESFire Mullion Keypad Reader 800-8085 SmartID SK10 PIVII (FIPS 201 end-point compliant), GSA Approved, Keypad Reader
<b>Dimensions</b>	5.59" x 1.81" x 0.98" (14.2 x 4.6 x 2.5cm)
<b>Read Range</b>	Up to 1.18" (3 cm) Dependent upon installation conditions.
<b>Mounting</b>	One of our smallest readers and ideally suited for mullion-mounted door installations, or any flat surface (Reader will not cover junction box). Optional single-gang electrical box mounting plate available. See 'Accessories' for more information.
<b>Power Supply</b>	4.5 – 16 VDC
<b>Power Consumption</b>	Average: 1.5 Watt Peak: 2.0 Watt
<b>Operating Temperature</b>	-4° F to 149° F (-20° C to 65° C)
<b>Operating Humidity</b>	0 – 95% non-condensing
<b>Transmit Frequency</b>	13.56 MHz
<b>Applications</b>	MIFARE (CSN), MIFARE (Sector), Dual MIFARE, DESFire, FIPS 201, T=CL (Read/Write)
<b>Reader Outputs</b>	Wiegand, Clock-and-Data, ISO7811 Clock-and-Data ABA Track 2 Emulation, RS232, RS485, RS422 or custom format output
<b>Cable Distance</b>	Wiegand/Clock-and-Data Interface 500ft (150m) (22AWG), RS232 50ft (15m), RS485/RS422 4000ft (1220m)
<b>Card Compatibility</b>	ISO 14443A * – read/write MIFARE®, DESFire®, SmartMX™, US Government FIPS 201 * compatibility based on application selected
<b>Certifications</b>	UL 294/cUL***, FCC Certification, Canada Certification****, CE Mark (EU), Australia C-Tick, New Zealand, RoHS Compliant
<b>Housing</b>	SB TSG Polymers
<b>Colour</b>	Silver
<b>Accessories</b>	500-8090 Single-gang electrical box mounting plate 500-9287 Wall mounting spacer 800-0300 Reader Tamper
<b>Termination</b>	Terminal Strip
<b>Warranty</b>	Warranted against defects in materials and workmanship for two years. (See complete warranty policy for details.)

\* Additional custom configuration format must accompany all reader orders. Contact customer service for more information  
\*\* Dependant upon installation conditions  
\*\*\* Models 800-8045 and 800-8084 are not UL certified  
\*\*\*\* Limited models are Canada certified. Check with customer service for more details.

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**ACCESS** experience.

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