

SmartTRANS™ SPI0 and SPKIO Readers

13.56 MHz and 125 kHz Reader

- ▶ Custom Configuration – Completely configurable for every 13.56 MHz access control application challenge.
- ▶ Open Architecture Design – ISO 14443A MIFARE®/DESFire® Contactless smart card, compatible for broad card interoperability.
- ▶ HID Prox Compatible – Compatible with standard HID Prox card formats including 26-bit and Corporate 1000.
- ▶ Data Security – Secure data transmission with 3DES encryption.



ACCESS flexibility

The SmartTRANS™ ISO 14443 and 125 kHz reader is a flexible, highly secure and stylish dual-technology contactless smart card reader ideal for customers migrating from the most popular 125 kHz readers to 13.56 MHz ISO 14443 smart cards. 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.

The SmartTRANS™ reader offers the ultimate choice in interoperability and programmability. Its unique capabilities, such as reading any MIFARE® sector and/or DESFire® application data file, meet all installation requirements. Combined with the capability of reading 125 kHz HID Prox cards*, SmartTRANS™ enables migration paths from 125 kHz to 13.56 MHz and/or interoperability among multiple card populations.

SmartTRANS™ 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 SmartTRANS™ 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 and read/write applications.

*Compatible only with 26-bit (HI0301) and Corporate 1000 HID Prox cards.

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.

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| * Base Model Numbers | 800-8100 SmartTRANS SPI0 PIVII (FIPS 201 end-point compliant, GSA Approved) and HID Prox Reader 800-8100CM SmartTRANS SPI0 MIFARE and HID Prox Reader 800-8100DF SmartTRANS SPI0 DESFire and HID Prox Reader 800-8110 SmartTRANS SPK10 PIVII (FIPS 201 end-point compliant, GSA Approved) and HID Prox Keypad Reader 800-8110CM SmartTRANS SPK10 MIFARE and HID Prox Keypad Reader 800-8110DF SmartTRANS SPK10 DESFire and HID Prox Keypad Reader |
| Dimensions | 5.59" x 1.81" x 0.98" (14.2 x 4.6 x 2.5 cm) |
| Read Range | MIFARE Card: Up to 1.8" (4.6 cm) HID Prox: Up to 1.8" (4.6 cm) |
| Mounting | 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. |
| Power Supply | 4.5-16 VDC |
| Power Consumption | Average: 1.5 Watts Peak: 2.0 Watts |
| Operating Temperature | -4° F to 149° F (-20° C to 65° C) |
| Operating Humidity | 0 – 95% non-condensing |
| Transmit Frequency | 13.56 MHz |
| Applications | MIFARE (Sector), DESFire, PIV II |
| Reader Outputs | Wiegand, Clock-and-Data, ISO 7811 Clock-and-Data ABA Track 2 Emulation, RS232, RS485, RS422 or custom format output |
| Cable Distance | Wiegand/Clock-and-Data Interface 500 ft (150 m) (22AWG), RS232 50 ft (15 m), RS485/RS422 4000 ft (1220 m) |
| Card Compatibility | Read Only ISO 14443A MIFARE/DESFire, US Government FIPS 201** |
| Certifications | FCC Certification, CE Mark (EU), Australia C-Tick, New Zealand, RoHS |
| Housing | SB TSG Polymers |
| Color | Silver |
| Accessories | 500-8090 Single-gang electrical box mounting plate 500-9287 Wall mounting spacer 800-0300 Reader Tamper |
| Termination | Terminal Strip |
| Warranty | Warrantied against defects in materials and workmanship for two years. (See complete warranty policy for details.) |

* Additional custom configuration format is required to accompany all reader orders. Contact customer service for more information. All readers are read only.
** Compatibility based on selected application

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MKT-SmartTRANS_SPI0_SPK10_DS_EN



ACCESS experience.

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