



SDI010

Secure Contact and Contactless Reader



The SDI010's dual interface reader combines contact and contactless interface capabilities to support the growing demand for badging and other personal identification applications utilizing contactless smart cards. The combination of technologies in one reader makes it possible to integrate a number of conventional single-purpose card applications into one card. For example, the same card and type of reader might be used for building access (attaching the card to the reader) and network access (inserting the card into the reader and entering a password).

The SDI010 is widely used for applications like public transport, Badging Stations, e-Banking, or checking the balance of your e-Purse, as well as for e-Passport personalization and verification.

SDI010 Benefits

The SDI010 is based on the 13.56 MHz radio frequency (RF technology) and works with all ISO 14443 type A and B compliant contactless smart cards from CardLogix, NXP, Infineon, Atmel, Sharp, ST Microelectronics, Samsung, and others.

- Full USB support with all relevant security standards
- On-board flash provides seamless secure firmware upgrades in the field
- PC/SC drivers supported for contact and contactless interfaces
- Combines contact and contactless smart card in a single product
- Fully tested and compliant with all major smart cards on the market
- Seamless abstraction of contactless card as T=1 so that existing applications designed for contact cards can work without any changes
- Optionally, an additional clip can be delivered for securing badge holders or passports onto the reader



Technical Data

Host Interface	<ul style="list-style-type: none"> • Full speed USB 2.0 (12 Mbps) • USB bus powered device • CCID compliant
Smart Card Interface	<ul style="list-style-type: none"> • T=0, T=1 protocol support • Communication speed up to 344,105 bps (PPS, FI parameter) • Frequency up to 12 MHz (PPS, DI parameter) • Supports ISO 7816 Class A and AB smart cards • Contactless Interface <ul style="list-style-type: none"> • Supports ISO 14443 A and B (13.56 MHz) smart cards • Compliant with ISO 14443-1 through 14443-4 • 1 cm operating distance • Communication speed up to 848 kbit/s
Smart Card Connector	<ul style="list-style-type: none"> • 8 sliding contacts (ISO locations) • 100,000 insertions
Human Interface	<ul style="list-style-type: none"> • Tri-color LED
Cable/Power	<ul style="list-style-type: none"> • Cable: 1.5 m long with USB type A connector • Powered through USB bus
Dimensions	<ul style="list-style-type: none"> • 118 x 78 x 22 mm
Weight	<ul style="list-style-type: none"> • Weight: 128 g
Operating Temperature	<ul style="list-style-type: none"> • 0 to 50 °C
Operating Systems	<ul style="list-style-type: none"> • Windows Vista, XP, Server 2003, 2000, Me, 98 • Windows Vista, XP, Server 2003 (64-bit) • Windows CE • MacOS • Linux • Solaris (on request)
API	<ul style="list-style-type: none"> • PC/SC • CT-API (through wrapper on top of PC/SC)
Functional Approvals	<ul style="list-style-type: none"> • VCCI • FCC Class B part 15 and FCC Class C, cULus, CE • USB • Microsoft WHQL 2000, XP, Server 2003
Environmental Approvals	<ul style="list-style-type: none"> • RoHS • WEEE

The SCM Microsystems Advantage

SCM Microsystems brings over a decade of experience in ASIC and smart card reader development to this unique product. With its dedicated Research and Development team and a true global presence, SCM Microsystems delivers high quality products catering to the various requirements in the security field. SCM, in conjunction with CardLogix, offers customization of products to suit any application's needs.