

SDI010

Secure Dual Interface Reader – Contact and Contactless



Overview

SCM Microsystems' 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 contact and contactless 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, e-Banking, to check the balance of your e-Purse, as well as for e-Passport personalization and verification.

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 including NXP, Infineon, Atmel, Sharp, ST Microelectronics, Gemalto, Samsung, and others.

The reader includes support for USB and all relevant security standards. Together, these features enable high performance, cost effective programs for secure logical and physical access in any environment. The contactless interface is PC/SC compliant which ensures a seamless integration to the contactless world for existing contact applications.

SDI010 Benefits

- 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 in the market
- Seamless abstraction of contactless card as T=1 card 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 on to the reader
- High performance
- Direct T=CL support through proprietary API
- Customizing options: casing, colors, and company logo



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SDIO10

Technical Data

Host Interface	<ul style="list-style-type: none"> • Full speed USB (12 Mbps) • High 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) • Support of ISO 7816 Class A and AB smart card
Smart Card Connector	<ul style="list-style-type: none"> • 8 contacts - ISO location • 100,000 insertions • Sliding contact
Contactless	<ul style="list-style-type: none"> • Support of ISO 14443 A and B (13.56 MHz) smart cards • ISO 14443 Part 1 to 4 compliant • Operating distance: 1cm • Communication speed: up to 848 Kbit/s
Human Interface	<ul style="list-style-type: none"> • One Tri color LED
Cable/Power	<ul style="list-style-type: none"> • Cable: 1.5 meter long with USB type A connector • Power through USB Bus
Dimensions	<ul style="list-style-type: none"> • LWH 118 x 78 x 22 mm, weight 128 grams
Operating Temperature	<ul style="list-style-type: none"> • 0° to 50° Celsius
OS	<ul style="list-style-type: none"> • Windows® 98, ME, 2000, XP and Server 2003, Vista
API	<ul style="list-style-type: none"> • PC/SC
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	<ul style="list-style-type: none"> • RoHS • WEEE

Technical data are subject to change without notice.

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 offers customization of products to suit application needs.

Typical advantages of an SCM Microsystems product include:

- More than 50 patents
- High quality mass production capability
- Industry endorsed SmartOS™ middleware
- Support for all current and emerging international standards
- Customer base of global, top tier PC OEMs, systems integrators and smart card industry leaders
- Direct significant long-term relationships with all leading smart card manufacturers and application providers

