SDI 010

Secure Dual Interface Reader Contact and Contactless

Overview

SCM Microsystems' dual interface readers combine our years of experience in smart card interface technology with the convenience of contactless connections.
The readers are based on the 13.56 MHz contactless smart card (RFID) technology and are compliant with ISO specifications 14443 A and B. The readers are ranked as the highest in interoperability and versatility and work with a broad range of 13.56 MHz contactless smart cards and passports including, Philips: MIFARE®, DESFire®, MIFARE ProX®, ATMEL, SHARP and others.
The combination of contact and contactless technologies in one reader makes it possible to integrate a number of conventional single-purpose card applications onto one card, such as ID cards for both physical and logical access.

SCM also offers an OEM version in a module form factor, optimized for organizations that want to incorporate contactless technology into their own designs for specialized terminals and devices. The market leaders in e-Passport readers, national ID applications, currently use this module.
The contactless interface is PC/SC compliant which ensures a seamless integration to the contactlessworld for existing contact applications.
The device includes support for USB and relevant security standards. Together, these features enable high performance, cost effective programs for secure logical access in any environment. Compact and elegant, the SDI offers the best price/performance ratio in the market.

SDI 010 Benefits

- On-board flash prevents obsolescence
- PC/SC drivers supported for contact and contactless interfaces
- Combines contact and contactless smart card in a single product
- High performance
- Fully tested and compliant with all major smart cards in the market
- Seamless abstraction of contactless card as T=0 card so that existing applications designed for contact cards can work without any changes
- Direct T=CL support through proprietary API
- Optionally an additional clip can be delivered for securing badge holders or passports on to the reader
- Customizing options: casing, colors, and company logo

PC Security Solutions

US Headquarters
SCM Microsystems Inc.
466 Kato Terrace
Fremont, CA 94539 USA
E-mail scmsales@scmmicro.com
Phone +1 510 360 2300
Fax +1 510 360 0211

European Headquarters
SCM Microsystems GmbH
Oskar-Messter-Str. 13
D-85737 Ismaning, Germany
E-mail sales@scmmicro.de
Phone +49 89 9595 5000
Fax +49 89 9595 5555

SCM Microsystems Japan, Inc.
8F Hirakawacho Ronstate, 2-11-1,
Hirakawa-cho, Chiyoda-ku,
Tokyo, Japan 102-0093
E-mail sales@scmmicro.co.jp
Phone +81 3 3511 8511
Fax +81 3 3511 8516

SCM Microsystems France
ZE Athélia II
216, avenue du Serpolet
13704 La Ciotat Cedex - France
E-mail sales@scmmicro.fr
Phone +33 442 838 000
Fax +33 442 838 001

SCM Microsystems (Asia) Pte. Ltd.
25 Serangoon North Ave 5
#06-00 Keppel Digihub
Singapore 554914
E-mail sales@scmmicro.com.sg
Phone +65 6551 5233
Fax +65 6483 0210

SCM Microsystems India Pvt. Ltd.
Module No. 0506, 0507 & 0508
D' Block South, 5th Floor
Tidel Park, 4 Canal Bank Road
Taramani
Chennai 600113, India
E-mail sales@scmmicro.co.in
Phone +91 44 2254 0020
Fax +91 44 2254 0029

www.scmmicro.com

SDI 010

Technical Data

Host Interface	• Full speed USB (12 Mbps) • High Bus powered device • CCID compliant
Smart Card Interface	• T=0, T=1 protocol support • Memory card support through SCM MCARD API • Communication speed up to 344,105 bps (PPS, FI parameter) • Frequency up to 12 MHz (PPS, DI parameter) • Support ISO 7816 Class A and AB smart card
Smart Card Connector	• 8 contacts - ISO location • 100,000 insertions • Sliding contact
Contactless	• ISO14443-A and B (13.56 MHz) • Support ISO14443 Part 1 to 4 • Operating distance: 1cm • Communication speed: up to 848 Kbit/s
Human Interface	• One Tri color LED
Cable/Power	• Cable: 1.5 meter long with USB type A connector • Power through USB bus
Dimensions	• LWH 118 x 78 x 22 mm, weight 128 grams
Operating Temperature	• 0° to 50° Celsius
OS	• Windows® 98, ME, 2000, XP and Server 2003
API	• PC/SC
Approvals	• VCCI • FCC Class B part 15 and FCC Class C, cULus, CE • USB • Microsoft® WHQL 2000, XP, Server 2003

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 includes:

- More than 80 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