

# 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 (RF 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®, INFINEON, 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 and national ID applications currently use this module.

The contactless interface is PC/SC compliant which ensures a seamless integration to the contactless world for existing contact applications. The device includes support for USB and relevant security standards. Together, these features enable high performance and cost effective programs for secure logical access in any environment. Compact and elegant, the SDI 010 offers the best price/performance ratio in the market.

### SDI 010 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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## Technical Data

Host Interface	<ul style="list-style-type: none"> <li>• Full speed USB (12 Mbps)</li> <li>• High Bus powered device</li> <li>• CCID compliant</li> </ul>
Smart Card Interface	<ul style="list-style-type: none"> <li>• T=0, T=1 protocol support</li> <li>• Communication speed up to 344,105 bps (PPS, FI parameter)</li> <li>• Frequency up to 12 MHz (PPS, DI parameter)</li> <li>• Support ISO 7816 Class A and AB smart card</li> </ul>
Smart Card Connector	<ul style="list-style-type: none"> <li>• 8 contacts - ISO location</li> <li>• 100,000 insertions</li> <li>• Sliding contact</li> </ul>
Contactless	<ul style="list-style-type: none"> <li>• ISO 14443 A and B (13.56 MHz)</li> <li>• Support ISO14443 Part 1 to 4</li> <li>• Operating distance: 1cm</li> <li>• Communication speed: up to 848 Kbit/s</li> </ul>
Human Interface	<ul style="list-style-type: none"> <li>• One Tri color LED</li> </ul>
Cable/Power	<ul style="list-style-type: none"> <li>• Cable: 1.5 meter long with USB type A connector</li> <li>• Power through USB Bus</li> </ul>
Dimensions	<ul style="list-style-type: none"> <li>• LWH 118 x 78 x 22 mm, weight 128 grams</li> </ul>
Operating Temperature	<ul style="list-style-type: none"> <li>• 0° to 50° Celsius</li> </ul>
OS	<ul style="list-style-type: none"> <li>• Windows® 98, ME, 2000, XP and Server 2003</li> </ul>
API	<ul style="list-style-type: none"> <li>• PC/SC</li> </ul>
Approvals	<ul style="list-style-type: none"> <li>• VCCI</li> <li>• FCC Class B part 15 and FCC Class C, cULus, CE</li> <li>• USB</li> <li>• Microsoft® WHQL 2000, XP, Server 2003</li> </ul>

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 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

