

Contactless Technology Integration Projects



Overview

SCM Microsystems has strong expertise in realising OEM projects. This includes the whole range of consulting, development, customization, integration and support.

Our readers combine years of experience in smart card interface technology with the need of contactless connections for certain applications like e-Passport, e-ID, corporate ID, transportation, and others. They are especially recommended for organizations looking for contactless technology to be incorporated into their own designs for specialized terminals and devices. The option of having contact and contactless technologies in one reader enables the integration of a number of conventional single-purpose card applications onto one card, such as ID cards for both physical and logical access.

The readers are based on the 13.56 MHz contactless smart card technology and are compliant with ISO specifications 14443 A and B. They 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, INFINEON, ATMEL, SHARP, ST Micro, Axalto, and others.

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.

Many leading manufacturers of e-Passport readers and national ID applications worldwide currently count on SCM as strategic partner.

Contactless technology 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
- High performance
- 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
- Direct T=CL support through proprietary API
- PC/SC 2.01 compliance

PC Security Solutions

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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 8 MHz (PPS, DI parameter) • Support 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"> • ISO 14443 A and B (13.56 MHz) • Support ISO 14443 Part 1 to 4 • Communication speed: up to 848 Kbit/s
Power	<ul style="list-style-type: none"> • through USB Bus
Operating Temperature	<ul style="list-style-type: none"> • 0° to 50° Celsius
OS	<ul style="list-style-type: none"> • Windows® 2000, XP and Server 2003
API	<ul style="list-style-type: none"> • PC/SC
Approvals	<ul style="list-style-type: none"> • 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

