

SDI011

Secure Dual Interface Smart Card Reader ISO 14443 & ISO 7816



Features

- Dual interface smart card reader module ISO/IEC14443 and ISO/IEC7816
- Multi-protocol 13.56MHz contactless smart card reader:
 - ISO14443 A & B
 - MIFARE
- Suitable for a wide range of smart card applications
- Compact form factor (63 x 64 x 10 mm) for easy system integration
- SmartOS™ upgradeable firmware
- PC/SC drivers for Windows®, MacOS, Linux
- USB interface & power
- Case color & company logo customizing options

Typical Applications

The SDI011 dual interface reader combines contact and contactless interface capabilities to support a wide variety of identification applications.

It is widely used for applications such as electronic ID and ePassport, e-Banking and e-Commerce

The SDI011 is based on ISO 7816 for the contact interface and on ISO 14443 at 13.56 MHz supporting type A and B compliant contactless smart cards.

Its in-field upgradeable firmware makes this module a secure and future-proof investment providing both flexibility and fast time to market for new products and applications as well as minimum risk linked to technology standards evolution.

For further information:

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Contactless Technology

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SDI011

Technical Data

Interfaces		
Host	USB	<ul style="list-style-type: none"> • Full speed USB 2.0 (12 Mbps) • USB Bus powered device • CCID compliant
Smart Card	contact	<ul style="list-style-type: none"> • ISO/IEC 7816 CCID compliant • T=0, T=1 protocol support • Communication speed up to 344,105 bps (PPS, FI parameter) • Frequency up to 12 MHz (PPS, DI parameter) • Voltage Classes A and AB • 8 contacts - ISO location, ID1 • Sliding contact, typ. 100,000 insertions
	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 • MIFARE: Classic 1K and 4K, DESFire, Ultralight, Plus • Communication speed: up to 848 Kbit/s
Human Software	optical API	<ul style="list-style-type: none"> • One Tri color LED • PC/SC
Operating Systems		<ul style="list-style-type: none"> • Windows® Vista, XP, Server 2003, 2000, ME, 98 • Windows® Vista, XP, Server2003 (AMD64/EMT64) • Windows® 7 • Windows® CE • MacOS • Linux
Cable/Power		<ul style="list-style-type: none"> • Cable: 1.5 meter long with USB type A connector
Dimensions	L x W x H [mm]	• 118 x 78 x 22
Weight	[g]	• 128
Operating Conditions		<ul style="list-style-type: none"> • Temperature [°C] 0 to 50 • Humidity [%] 90 (non-condensing)
Approvals		<ul style="list-style-type: none"> • Functional: FCC Class B part 15 and FCC Class C, cULus, CE, VCCI • USB • Microsoft® WHQL 2000, XP, Server 2003 • Environmental: RoHS, WEEE

Technical data are subject to change without notice

The SCM Microsystems' Advantage

Trusted Partner

- ASIC (application specific IC) and smart card reader development experience since 1990
- Innovative solutions - more than 50 patents filed
- Reliable high-quality mass production capability - more than 15 Mio. reader solutions deployed to date
- Active role in standardization committees
- Complex project management expertise e.g. U.S. Department of Defense CAC program, electronic ID applications (ePassport, health card projects, national ID, driver licence)

Support

- Global presence and support
- Product customization options
- Product branding
- Dedicated Research & Development and customer support team
- Strong global partnership network with leading suppliers along the value chain (smart card manufacturers, application providers, system integrators, device manufacturers)

Trusted Products

- Broadest portfolio of security technology products - for governments, corporations, financial institutions, small and medium-sized enterprises and individuals around the globe
- Secure smart chip reader design - certified and compliant to EMV, Common Criteria, PC/SC, USB
- High-quality products designed to meet the various requirements in the data security area
- Flexible and future proof solutions - SCM's SmartOS™ firmware and its own ASIC technology allow in Field upgrades and secure your investment

