

SDM100

Dual Interface Smart Card Reader Module



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

Typical Applications

With its combination of a contact and a contactless smart card reader into one module, this product is ideally suited for various contactless and contact applications in the public and private sector.

Its compact form factor makes it an ideal product for integration in other products such as electronic ID verifiers, voting machines, medical equipment, signature pads, and kiosks.

As for all SCM Microsystems products, SDM100 is designed to offer best in class interoperability with various 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:
<http://www.scmmicro.com> or sales@scmmicro.com

Dual Interface Modules

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

U.S. Office
 SCM Microsystems, Inc.
 1900-B Carnegie Avenue
 Santa Ana, CA 92705 USA
 E-mail scmsales@scmmicro.com
 Phone +1 888 446 9008
 Fax +1 888 446 1210

SCM Microsystems Japan, Inc.
 GoogolPlex Millennium Building 6F
 4-4-20 Shiba, Minato-ku,
 Tokyo, Japan 108-0014
 E-mail sales@scmmicro.co.jp
 Phone +81 3 6414 6611
 Fax +81 3 6414 6612

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

SDM100

Technical Data

Interfaces		
Host	USB	• USB 2.0 (12Mbps)
Smart Card	Contact	• ISO IEC7816 CCID compliant • T=0, T=1 protocol support • Communication speed up to 344 kbs (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	• Support of ISO/IEC 14443 A and B (13.56 MHz) smart chips • ISO/IEC 14443 Part 1 to 4 compliant • MIFARE: Classic 1K and 4K, DESFire, Ultralight, Plus • Communication speed: up to 424 Kbit/s
Human	Optical	• Status LED
Software	API	• PC/SC, In-field upgradeable firmware (SmartOS™)
Operating Systems		• Windows® Vista, XP, Server 2003, 2000 • Windows® Vista, XP, Server2003 (AMD64/EMT64) • Windows 7 • MacOS, Linux
Power		• USB Hi-Bus powered at 5V, 150mA Max
Operating Conditions	Temperature [°C]	• 0 - 50
	Humidity [%]	• 90 (non condensing)
Dimensions	L x W x H [mm]	• 63 x 64 x 10
Weight	[g]	• 24
Approvals	Functional (on request)	• FCC Class B Part 15, VCCI, CE • USB, UL
	Environmental	• RoHS, WEEE

Technical data provided here are subject to changes without notice
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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

