

# SCR331

## Contact Smart Card Reader



### Features

- Modular form factor allows easy and flexible card-insertion angle
- Available upon request as ready-to-build in PCB (without casing)
- EMV Level 1 certified
- Compliant with all major smart cards and relevant industry standards
- Customization options: Casing color and company logo OEM branding
- Software and functionality compatible with SCM's SCR33xx readers family

### Typical Applications

The SCR331 is suitable for a wide range of applications.

Typical applications for offices, IT companies and OEMs are for example logical access control to a PC or network, secure authentication for Business-to-Business and Business-to-Consumer applications, secure logon via email encryption.

With its EMV certification, the SCR331 is also suitable for banking related applications. The reader is ideal for integrating it into systems of the gaming industry. Its square modular shape makes it furthermore suitable for integration into external systems such as in transportation related systems, e.g. for parking, ticketing, and toll-collection.

The SCR331 can also be integrated into larger OEM systems, both with or without casing as a PCB module.

### Contact Reader

U.S. Headquarters  
SCM Microsystems Inc.  
41740 Christy Street  
Fremont, CA 94538 USA  
E-mail [scmsales@scmmicro.com](mailto:scmsales@scmmicro.com)  
Phone +1 510 360 2300  
Fax +1 510 360 0211

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

SCM Microsystems Japan, Inc.  
GoogolPlex Millennium Building 6F  
4-4-20 Shiba, Minato-ku,  
Tokyo, Japan 108-0014  
E-mail [sales@scmmicro.co.jp](mailto: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](mailto:sales@scmmicro.co.in)  
Phone +91 44 2254 0020  
Fax +91 44 2254 0029

[www.scmmicro.com](http://www.scmmicro.com)

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## Technical Data

<b>Interfaces</b>		
Host	USB	<ul style="list-style-type: none"> <li>• Full speed USB 2.0 (12 Mbps)</li> <li>• USB Bus powered device</li> <li>• CCID compliant</li> </ul>
Smart Card	contact	<ul style="list-style-type: none"> <li>• T=0, T=1 protocol support</li> <li>• Memory card support through SCM MCARD API</li> <li>• Communication speed up to 344,105 bps (PPS, FI parameter)</li> <li>• Frequency up to 8 MHz (PPS, DI parameter)</li> <li>• Support ISO 7816 Class A and AB smart card</li> <li>• 8 contacts - ISO location</li> <li>• 100,000 insertions</li> <li>• Sliding contact</li> </ul>
Human	optical	<ul style="list-style-type: none"> <li>• One green LED</li> </ul>
Software	API	<ul style="list-style-type: none"> <li>• PC/SC</li> <li>• CT-API (thru wrapper on top of PC/SC)</li> </ul>
<b>Operating Systems</b>		<ul style="list-style-type: none"> <li>• Windows® Vista, XP, Server 2003, 2000, ME, 98</li> <li>• Windows® Vista, XP, Server2003 (AMD64/EMT64)</li> <li>• Windows® CE 3.0, 4.1, 4.2, 5.0, 6.0</li> <li>• MacOS, Solaris, Linux 32-bit (2.4.x, 2.6.x)/64-bit</li> </ul>
<b>Cable</b>		<ul style="list-style-type: none"> <li>• Cable: 1.5m long with USB type A connector</li> </ul>
<b>Dimensions</b>	L x W x H [mm]	<ul style="list-style-type: none"> <li>• 90 x 70 x 16.5</li> </ul>
<b>Weight</b>	[g]	<ul style="list-style-type: none"> <li>• 100</li> </ul>
<b>Operating Conditions</b>	Temperature [°C] Humidity [%]	<ul style="list-style-type: none"> <li>• 0 to 50</li> <li>• 90 (non-condensing)</li> </ul>
<b>Approvals</b>	Functional	<ul style="list-style-type: none"> <li>• FCC Class B part 15, cULus, CE, VCCI, ANZI, CNS</li> <li>• USB-IF</li> <li>• Microsoft® WHQL 2000, XP, Server 2003</li> <li>• EMV Level 1</li> </ul>
	Environmental	<ul style="list-style-type: none"> <li>• RoHS, WEEE</li> </ul>

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™ middleware and its own ASIC technology allow in Field upgrades and secure your investment

