

# SPRx32

Keep your PIN code safe – Universal Connectivity



## Overview

The SPRx32 is based on SCM Microsystems' STC II micro controller. This device supports multiple interfaces, multiple reader devices and relevant security standards. Together, these features provide SCM Microsystems with the unique ability to offer an efficient, high performance, cost effective solution that combines USB and serial connections via a removable cable (SPR532). The SPRx32 is specifically designed to protect your PIN code from theft or unauthorized sources while connected to the network. It provides the next level of security by allowing your PIN code to be entered locally and safely on the reader itself without being transmitted to your untrusted PC. The SPRx32 is ideal for secure web access, online banking and sensitive database access such as personnel or healthcare records. On-board flash enables future firmware and application enhancements that guarantee against obsolescence.

## SPRx32 Benefits

- Secure PIN entry to smart card
- On-board flash provides seamless secure firmware upgrades in the field
- EMV Level 1 AND PC/SC certification based on a single solution
- Common Criteria (CC EAL 3+ High) certified
- USB (SPR332) or Dual host interface (USB and RS232, SPR532)
- High performance
- Fully tested and compliant with all major smart cards in the market
- Customizing options: casing, colors, and company logo

## PC Security Solutions

US Headquarters  
 SCM Microsystems Inc.  
 466 Kato Terrace  
 Fremont, CA 94539 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  
 D-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.  
 8F Hirakawacho Ronstate, 2-11-1,  
 Hirakawa-cho, Chiyoda-ku,  
 Tokyo, Japan 102-0093  
 E-mail [sales@scmmicro.co.jp](mailto:sales@scmmicro.co.jp)  
 Phone +81 3 3511 8511  
 Fax +81 3 3511 8516

SCM Microsystems France  
 ZE Athélie II  
 216, avenue du Serpolet  
 13704 La Ciotat Cedex - France  
 E-mail [sales@scmmicro.fr](mailto:sales@scmmicro.fr)  
 Phone +33 442 838 000  
 Fax +33 442 838 001

SCM Microsystems (Asia) Pte. Ltd.  
 25 Serangoon North Ave 5  
 #06-00 Keppel Digihub  
 Singapore 554914  
 E-mail [sales@scmmicro.com.sg](mailto:sales@scmmicro.com.sg)  
 Phone +65 6551 5233  
 Fax +65 6483 0210

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



design award  
 winner  
**2003**



# SPRx32

## Technical Data

Host Interface	<ul style="list-style-type: none"> <li>• SPR132: PnP RS232 (115,200 bps)</li> <li>• SPR332: Full speed USB (12 Mbps), bus powered</li> <li>• SPR532: Dual Mode (USB and RS232)</li> <li>• CCID compliant</li> </ul>
Smart Card Interface	<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 12 MHz (PPS, DI parameter)</li> <li>• Support ISO 7816 Class A and AB card</li> </ul>
Smart Card Connector	<ul style="list-style-type: none"> <li>• 8 contacts - ISO location</li> <li>• 100,000 insertions</li> <li>• Landing contact (sliding optional)</li> </ul>
Human Interface	<ul style="list-style-type: none"> <li>• 2 LEDs and buzzer indicating status</li> <li>• 3 x 4+1 keypad</li> <li>• Tamper evident</li> </ul>
Cable/Power	<ul style="list-style-type: none"> <li>• 1.5m long with USB type A connector or in Dual Mode also</li> <li>• 1.5m long with F-DB9 and Pass-through PS/2</li> </ul>
Dimensions	<ul style="list-style-type: none"> <li>• LWH 120 x 70 x 40 mm, weight 250 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, NT4, 2000 and XP</li> <li>• Windows® CE, MacOS X on request</li> <li>• Linux, Solaris on request</li> </ul>
API	<ul style="list-style-type: none"> <li>• PC/SC</li> <li>• CT-API (thru wrapper on top of PC/SC)</li> </ul>
Approvals	<ul style="list-style-type: none"> <li>• FCC Class B part 15, cULus, CE, VCCI</li> <li>• Microsoft® WHQL 2000, XP</li> <li>• USB</li> <li>• EMV Level 1</li> <li>• Common Criteria EAL 3+ High</li> <li>• HBCI compliant</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 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

