

# PACT

## Versatile & Cost effective Physical Access Terminals



### Technical Data

<b>Host Interface</b>	<ul style="list-style-type: none"><li>• Wiegand / Mag Stripe (CLK/Data)</li><li>• RS485 (2 or 4 wires)</li><li>• 3 Relay inputs to set reader state</li></ul>
<b>Smart Card Interface</b>	<ul style="list-style-type: none"><li>• T=0, T=1 protocol support (5V card)</li><li>• Communication speed up to 115,200 bps</li></ul>
<b>Smart Card Connector</b>	<ul style="list-style-type: none"><li>• 8 contacts (ISO location)</li><li>• Landing contact, 500,000 insertions</li></ul>
<b>Contactless</b>	<ul style="list-style-type: none"><li>• ISO 14443 Type A and B (13.56MHz)</li><li>• Support ISO 14443 Part 1 to 4</li><li>• Operating distance: 1 inch</li><li>• Communication speed: 424 Kbps</li><li>• Internal 3DES for card authentication (DESFire)</li></ul>
<b>Keypad</b>	<ul style="list-style-type: none"><li>• Standard telephone layout (0-9, clear, enter)</li><li>• Robust hard cap, silicon keypad</li></ul>
<b>Human Interface</b>	<ul style="list-style-type: none"><li>• 1 LED beam (green and red) for access information (granted or denied)</li><li>• 1 LED per type of media (contact, contactless, PINPAD) to indicate the type of requested operation</li><li>• Buzzer for user acoustic feedback</li></ul>
<b>Application</b>	<ul style="list-style-type: none"><li>• Full SDK available</li><li>• Field Secure firmware upgrade</li></ul>
<b>Operating Temperature</b>	<ul style="list-style-type: none"><li>• Indoor: 0° to 50° Celsius</li><li>• Outdoor: -25° to 65° Celsius</li></ul>
<b>Operating Humidity</b>	<ul style="list-style-type: none"><li>• Indoor: 20% to 90% RH non-condensing</li><li>• Outdoor: 5% to 95% RH non-condensing</li></ul>
<b>Dimensions</b>	<ul style="list-style-type: none"><li>• LVH 148 x 84 x 46 mm</li><li>• Mounting - fits into a single junction box</li></ul>
<b>Power</b>	<ul style="list-style-type: none"><li>• 12V DC - 400 mA</li></ul>
<b>Approvals</b>	<ul style="list-style-type: none"><li>• FCC Class B part 15, UL, CE</li></ul>

### Overview

Leveraging proven experience in smart card and connectivity technologies, SCM is now introducing a new concept of versatile and cost effective physical access terminals (PACT).

To date SCM has shipped several million smart card readers worldwide to major enterprises, financial institutions and government agencies (over 1.5 million units to the US Department of Defense alone).

### PACT Benefits

- Designed and constructed to provide a wide variety of configuration options
- The same reader can be used with both Wiegand / Mag Stripe and RS485
- The same reader supports contact and contactless with or without PINPAD
- Flexible SDK allowing integrators to develop their own applications and differentiate themselves
- The SDK together with the onboard flash allow seamless reconfiguration of the reader and prevent obsolescence

### The SCM Microsystems' Advantage

SCM Microsystems brings over a decade of experience in ASIC and smart card reader development to this unique product, including:

- More than 80 patents
- Support for all current and emerging industry standards
- Customer base of global, top-tier PC OEMs, systems integrators and smart card industry leaders
- Industry-endorsed SmartOS™ middleware
- Direct, significant long-term relationships with all major smart card manufacturers and application providers
- High quality mass production capability

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