PACT

Versatile & Cost effective
Physical Access Terminals

Technical Data

Host Interface	• Wiegand / Mag Stripe (CLK/Data) • RS485 (2 or 4 wires) • 3 Relay inputs to set reader state
Smart Card Interface	• T=0, T=1 protocol support (5V card) • Communication speed up to 115,200 bps
Smart Card Connector	• 8 contacts - ISO location • Landing contact, 500,000 insertions
Contactless	• ISO14443 Type A and B (13.56MHz) • Support ISO14443 Part 1 to 4 • Operating distance: 1 inch • Communication speed: 424 Kbps • Internal 3DES for card authentication (DESFire)
Keypad	• Standard telephone layout (0-9, clear, enter) • Robust hard cap, silicon keypad
Human Interface	• 1 LED beam (green and red) for access information (granted or denied) • 1 LED per type of media (contact, contactless, PINPAD) to indicate the type of requested operation • Buzzer for user acoustic feedback
Application	• Full SDK available • Field Secure firmware upgrade
Operating Temperature	• Indoor: 0° to 50° Celsius • Outdoor: -25° to 65° Celsius
Operating Humidity	• Indoor : 20% to 90% RH non-condensing • Outdoor: 5% to 95% RH non-condensing
Dimensions	• LWH 148 x 84 x 46 mm • Mounting - fits into a single junction box
Power	• 12V DC - 400 mA
Approvals	• FCC Class B part 15, UL, CE

Overview

Leveraging proven experience in smart card and connectivity technologies, SCM Microsystems introduces a new product family dedicated to physical access.

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

Taking advantage of this unique position and experience, SCM Microsystems is now introducing a new concept of versatile and cost effective physical access terminals.

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 on-board 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 international 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 leading smart card manufacturers and application providers
• High quality mass production capability

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PACT

Indoor & Outdoor

Contactless

Contactless/PINPAD

Indoor

Contact/PINPAD

Contact/Contactless/PINPAD

	Wiegand / Mag Stripe RS485	Optional SAM	Indoor	Outdoor
CL	●	●	●	●
CL/Pinpad	●	●	●	●
CT/CL/Pinpad	●[1]		●	
CT/Pinpad	●[1]		●	

CL: contactless smart card (ISO14443)
CT: contact smart card (ISO7816)
Note 1: contact card is only available with RS485

Please contact your local SCM Microsystems representative for availability and details.

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