

PACT

Versatile & Cost effective Physical Access Terminals



Overview

SCM Microsystems' Physical Access Control Terminals (PACT) is a versatile and cost effective solutions to secure access to business, healthcare and government campuses, buildings and garage entrances, parts of buildings and internal rooms. The terminals typically has multiple interfaces, which can include contact and contactless smart card interfaces, a combination of both technologies, as well as PINpad and biometric reader capabilities. PACT is available in different configurations for indoor and outdoor usage. The terminal is 148 mm long, 84 mm wide and 46 mm high and fits into a single junction box.

The PACT concept allows the product to replace legacy systems while leveraging new and more secure token technologies without having to change the current infrastructure and wiring. Additionally, its flexible design enables it to be used for new installations that offer more modern communication mechanisms.

The PACT family supports all current and emerging international standards for access control systems. Wiegand (DO/D1), magnetic stripe (CLK/Data) and RS-485 communications are available and TCP-IP support is planned. Security options include an internal SAM and 3DES for card authentication (DESFire) as well as relay inputs for security level control.

PACT products support the Government Smart Card Interoperability Specification (GSC-IS) version 2.1 published by the National Institute of Standards and Technology (NIST) and also support or are consistent with guidelines from the Federal Identity Credentialing Committee (FICC), the Data Model Working Group under the Government Smart Card - Interagency Advisory Board (GSC-IAB) and the Physical Access Interagency Interoperability Working Group (PAIIWG) under the GSC-IAB.

PACT terminals support the latest drafts of the PAIIWG's Physical Access Control System - Smart Card Technical Guidance, including the emerging guidelines for the Federal Identification Credential Number (FIC-N) and the Card Holder Unique Identifier (CHUID). PACT terminals also support ISO 7816 Parts 1 to 4 for contact smart cards and ISO14443 Type A and B (13.56MHz) Parts 1 to 4 for contactless cards, with an operating distance of about one inch.

Software architecture for the PACT products is based on SCM's industry endorsed SmartOS™ middleware. The company provides a full Software Development Kit that enables integrators to develop their own applications and differentiate themselves. Upon request, SCM can also develop custom applications. The SDK together with the onboard flash are designed to provide a secure firmware upgrade in the field, and a seamless reconfiguration of the terminal to prevent obsolescence.

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PACT

Technical Data

Host Interface	<ul style="list-style-type: none"> • Wiegand / Mag Stripe (CLK/Data) • RS485 (2 or 4 wires) • 3 relay inputs to set reader state
Smart Card Interface	<ul style="list-style-type: none"> • T=0, T=1 protocol support (5V card) • Communication speed up to 115,200 bps
Smart Card Connector	<ul style="list-style-type: none"> • 8 contacts - ISO location • Landing contact, 500,000 insertions
Contactless	<ul style="list-style-type: none"> • ISO14443 Type A or B (13.56MHz) • Support ISO14443 Part 1 to 4 • Operating distance: 1 inch • Communication speed: 106 Kbps • Internal 3DES for card authentication (DESFire)
Keypad	<ul style="list-style-type: none"> • Standard telephone layout (0-9, clear, enter) • Robust hard cap, silicon keypad
Human Interface	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Full SDK available • Field secure firmware upgrade
Operating Temperature	<ul style="list-style-type: none"> • Indoor: 0° to +50° Celsius • Outdoor: -25° to +65° Celsius
Operating Humidity	<ul style="list-style-type: none"> • Indoor : 20% to 90% RH non-condensing • Outdoor: 5% to 95% RH non-condensing
Dimensions	<ul style="list-style-type: none"> • LWH 148 x 84 x 46 mm • Mounting - fits into a single junction box
Power	<ul style="list-style-type: none"> • 12V DC - 200 mA average
Approvals	<ul style="list-style-type: none"> • FCC, UL 294, CE

Technical data are subject to change without notice.

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.

