

ACR88 Secure PINPad Reader

A Product Presentation









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Rundown

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Product Overview



Product Overview

ACR88 Handheld Smart Card Reader/Writer

Multifunctional handheld smart card device with optional fingerprint scanner or contactless card reader



Product Overview

ACR88 Series



ACR88U (Standard Version)





ACR88U-FPA (+ Fingerprint Sensor) ACR88U-CL1 (+ Contactless Reader)

(25)

Product Features



Product Features









Handheld Portable Smart Card Reader/Writer Dual operation modes: *PC-linked: powered through USB Standalone: powered through 3x AAA batteries* Accepts 3V and 5V cards Supports MCU cards with T=0 and T=1 protocols 2 full-sized smart cards and 3 SAMs On-board firmware upgradeable On-board script loadable*

(* For ACR88U ONLY.)

Product Features

Supports Secure PIN entry (SPE)

Graphical LCD w/backlight (128x64 dots, 8 rows x 21chars, English)

Ergonomic and highly durable keypad (20-keys)

Monotone Buzzer

3 bi-color LED

Real time clock (RTC) w/ independent backup battery

Tamper switch which protect fraudulent intrusion

Certifications / Standards:

- CCID compatible
- CE/FCC
- EMV2000 Level 1 certification
- ISO 7816
- WHQL



Optional Features of ACR88



Contactless Sensor For fast transactions

Fingerprint Sensor For stronger authentication

Privacy Cover For data privacy (MOQ required)

> Non-volatile memory For different font storage



Product Value



What are the Key Benefits of ACR88?

Extraordinary Ease of Use

PC/SC compliance	→	Simple installation
Streamlined stylish profile	→	Conserves desktop space
Ergonomically designed	→	Easily handheld for key entry or card input
Intuitive keypad interface, LED & buzzer signaling, Hi-res backlit display, Well-spaced Keys	→	Reduce user training & Minimize user error



What are the Key Benefits of ACR88?

Flexibility

Modular Design with Optional Fingerprint Sensor / Contactless Card Reader	→	Support a full range of security and verification applications
Online/Offline modes available	→	Increase usage scenarios
Support 2 x full-size, and up to 3 x SAM slots for SIM-sized cards	→	Adjust level of security for different applications
Script programmability with ACS Proprietary Scripting Commands	→	Easy command Programming with tailor-fit functions
Customization	→	To suit specific needs

What are the Key Benefits of ACR88?

Cost-Effectiveness & Reliability



Development Environment



Development Environment



For PC-Linked Applications Program according to PC/SC API

For Standalone Applications

Program via ACR88 Scriptbuilder* according to easy-to-use, well-defined scripts provided by ACS

(* On-board script programmability: For ACR88U ONLY)

Software Development Kit



SDK - Contents



1 ACR88 reader

10 Test Cards

0

0

0

0

0

- 5 ACOS3 Microprocessorbased cards
- 5 ACOS6 SAM cards
- 1 Detachable USB cable
- 1 Firmware upgrade cable
- 1 Leather case
- 1 SDK CDROM containing
 - Drivers
 - Sample codes
 - Tools and Utilities
 - Demo programs
 - Comprehensive Documents
 e.g. API, Technical Specification,
 User Guides, etc.

SDK – Demo Programs









1. Multi-application DemoA 3-part demo which includes the ePurse, Healthcare card and Taxi meter

SDK – Demo Programs





2. Functional Demo

Demonstrates different API functions of the ACR88 device: e.g. Port, Device, LCD, Keypad, Realtime Clock, etc.

SDK – Demo Programs



ACR88 Scriptbuilder



3. Standalone Demos and sample scripts Shows the necessary functions of the device when implemented as standalone taxi application & traffic violation application.

Product Application



In what areas can we apply ACR88?



Transportation / Traffic Management



Payment System (ePurse, Credit/Debit etc.)



Secure Authentication



Healthcare



eCommerce



Loyalty System



Network Access Control



Physical Access Control



How to Use ACR88 - Overview Sample Scenario: Traffic Violations Management

Enter PIN with the keypad optionally

Contact/Contactless Driver's Card

Optionally authenticate ID by scanning fingerprint.

SAM Cards (Police' Cards) are stored inside ACR88. This will authenticate the drivers' cards inserted, as well as the data received from them, and prove to the drivers the authenticity of the terminal



Driver's Information is shown in the LCD.

Police transfer the fining data to the terminals in the Police Station with the ACR88 in Online mode.



Police enters violation and the fine amount by means of the keypad.

How to Use ACR128 - Overview Sample Scenario: Healthcare





Patient's medical information are stored in the card. The card is inserted into one of ACR88's card slots.



When mutually authenticated, patient's info can be viewed on the LCD of ACR88, or can be shown on the monitor when ACR88 is connected to the PC



Thank You!!!

More information on:

http://www.acs.com.hk/acr88.php

