ACR890
All-in-One Mobile Smart Card Terminal

Advanced Card Systems Ltd.
Card & Reader Technologies

Outline

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Product Overview

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ACR890 All-in-One Mobile Smart Card Terminal

ACR890 is the next generation, high-performance mobile smart card terminal that combines smart card, magnetic stripe, and contactless technologies. It also includes a built-in thermal printer and a high resolution touch screen LCD.

ACR890 is built to support numerous sophisticated applications with its advanced features and range of connectivity choices.

Introduction

Product Features

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Key Features

Peripherals:

Programmable LED	Color Display	LCD Display	Touch Screen	Speaker	Thermal Printer	Keypad	Micro-SD Slot	Mass Storage

Card Interface:

Contact Card Slot	Contactless	Magnetic Stripe	SAM Slot

Connectivity:

Wi-Fi	3G	GPRS	USB

Others:

Standalone	Built-in OS	Firmware Upgradeable	Real-time Clock

Difference of PPDR Platforms

	ACR83U-A1	ACR89U-A1	ACR89U-A2	ACR890
Operation Modes				
PC-Linked Mode	●	●	●	
Network-Linked				●
Standalone		●	●	●
Contact Smart Card Interface				
Contact Card Slots	1	2	2	1
SAM Slots		3	3	2
ISO 7816 Class A B C, T=0, T=1	●	●	●	●
Contactless Smart Card Interface				
ISO 14443 Type A and B			●	●
ISO/IEC 18092 (NFC)			●	
MIFARE Classic® 1K/4K			●	●
FeliCa			●	●
Topaz			●	
MIFARE Ultralight®			●	●
MIFARE Ultralight® C			●	
MIFARE Plus®				●
MIFARE® DESFire®			●	●

Introduction Features

Difference of PPDR Platforms

	ACR83U-A1	ACR89U-A1	ACR89U-A2	ACR890-A1
Built-In Peripherals				
Touch-screen				●
Magnetic Stripe Scanner				●
SIM Slot (GPRS)				●
Thermal Printer		Optional (PTR-89)	Optional (PTR-89)	Built-in
Certifications/Compliance				
PC/SC 2.0 Part 10 - Secure PIN Entry	●	●	●	
EMV$^{™}$ Level 1 (Contact)	●	●	●	

Subject to change without prior notice

Introduction Features

ACR890 Series

ACR890-A1
- Supported 3G Frequency Band: 2100 MHz, 900 MHz

ACR890-A2
- Supported 3G Frequency Band: 1900 MHz, 850 MHz

Product Value

What are the Key Benefits of ACR890?

Cost-Effective

Offers competitive pricing for its all-in-one design:
- *PIN-pad*
- *LCD*
- *Contact + Contactless + Magstripe*
- *Thermal Printer*
- *GPRS + Wi-Fi*

Secure and Reliable
- *SAM slots*
- *Dual Smart Card Interface*
- *Secure PIN Entry*
- *Mutual Authentication*

Customer Convenience
- *Easy to read and use*
- *Highly durable and color-coded keypad*
- *Firmware upgradeable*
- *Availability of several features for application use*

Innovative
- *Ergonomically designed*
- *Fast processing time*
- *All-in-one mobile design*
- *Large and expandable memory*

Introduction Features Product Value

Product Application

In what areas can we apply ACR890?

e-Government

Banking and Payment

e-Healthcare

e-Purse and Loyalty

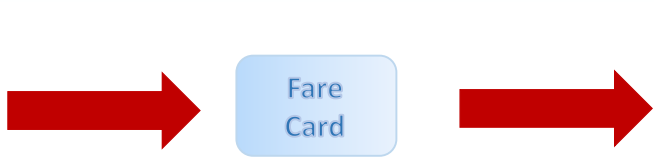Transportation

ACR890 Sample Application

Using the ACR890, a **personalized user card** is created.

SAM cards are placed in the ACR890 for credit, debit, or card personalization depending on the requirements of the Key Management System.

The user may **top up** his card on corresponding ACR890 Terminals.

Using the ACR890's **Wi-Fi** and **3G** connectivity, the transactions are uploaded to the **host server** for transaction validation and record keeping.

The user card is used to pay on ACR890 Terminals deployed in **public transportation** such as buses, taxis, trains, etc.

Fare Card

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Introduction | Features | Product Value | Application

Compliance/Certifications

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Thank You!

For more information, visit:
http://www.acs.com.hk/en/product-lines/5/smart-card-readers-with-pin-pad/

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