

Product Presentation

ACR890 All-In-One Mobile Smart Card Terminal

Outline



- Product Overview
- Product Features
- Product Value
- Product Application
- Compliance/Certifications



Product Overview

Product Overview



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.

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





Product Features

Key Features

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Peripherals:







LCD Display



Touch Screen

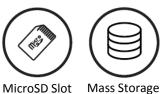




Printer



Keypad



LED

Card Interface:







Contactless



Magnetic Stripe



SAM Slot

Connectivity:











Others:







09:30 Real-time

Firmware Upgradeable

Clock

Difference of PPDR Platforms











	ACR83U-A1	ACR89U-A1	ACR89U-A2	ACR890
Operation Modes				
PC-Linked Mode	•	•	•	
Network-Linked				•
Stand-Alone		•	•	•
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 1K/4K			•	•
FeliCa			•	•
Topaz			•	
Mifare Ultralight			•	•
Mifare Ultralight C			•	
Mifare Plus				•
Mifare DESFire			•	•

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

ACR890 Series





ACR890-A1

Supported 3G Frequency Band:
 2100MHz, 900MHz

ACR890-A2

Supported 3G Frequency Band:
 1900MHz, 850MHz

ACR880 vs. ACR890



Processor	32bit, 200MHz	32bit , 1GHz		
Operating System	Linux	Linux		
Operation Mode	Standalone	Standalone		
Flash	32 MB	512 MB		
RAM	32 MB	512 MB		
Expandable Memory	-	via Micro SD Slot		
Battery	Li-lon, 2150mAh, 7.4V	Li-lon, 2000mAh, 7.4V		
Thermal Printer	-	Yes		

ACR880

2.7", 128x64, BW

USB, Serial, Ethernet

GPRS

Touch Screen	-	
LED	4	
Firmware Upgrade	Serial	
Contact card slot	2	
Contactless	ISO 14443 Type A & B, Mifare	
SAM Slot	2	

ACR890

3.5", 240x320, Colored

Yes

USB, SD Card, Wi-Fi, Serial

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Network Based

Physical Connection

LCD



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



Product Application

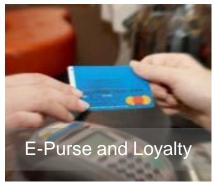
In what areas can we apply ACR890?







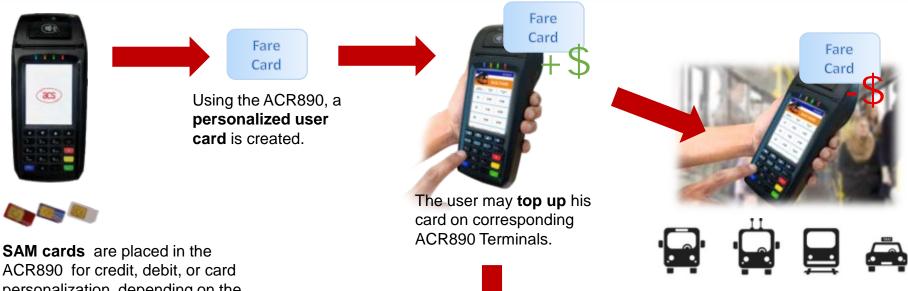






ACR890 Sample Application





ACR890 for credit, debit, or card personalization depending on the requirements of the Key Management System.

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.



Compliance/Certifications

Compliance / Certifications







Thank You!

For more information, visit:

http://www.acs.com.hk/en/product-lines/5/smart-card-readers-with-pin-pad/

