



Advanced Card Systems Ltd.
Card & Reader Technologies



ACR1281S-C1 DualBoost II

Serial Dual Interface Reader

Product Presentation





Rundown

1. Product Overview
2. Product Feature
3. Product Value
4. Product Application
5. Q & A



Product Overview





Product Overview

ACR1281S-C1 DualBoost II Serial Dual Interface Reader

The ACR1281 Series is a family of Contactless Smart Card Readers sharing the same core. The readers are developed based on the 13.56 MHz RFID technology.

The ACR1281 Series belongs to the Contactless Product Family – an extension to the product line that offers support for contact smart cards.



Product Features





What are the Key Features of ACR1281S-C1?



RS232 (Serial) for Data Transmission
USB for Power Supply

Smart Card Interfaces:
PICC (Contactless)
ICC (Contact)
SAM

Intelligent Support
Hybrid and Combi Cards

High-Speed Transaction
106 kbps – 848 kbps (Max)

Supported Card Types:
ISO 14443 Type A & B
Mifare, Mifare Plus, DESFire EV1
ISO 7816 Class A, B, C
Memory Cards

User-Controllable Peripherals:
LEDs
Buzzer

Device Firmware Upgradeable
via USB Interface

Others/Misc:
Supports Contactless Extended
APDU

Protocols and Standards:
ISO 14443 Parts 1-4 Contactless
Native T=CL
ISO 7816 T= 0 and T= 1 Contact
CE, FCC, RoHS

Operating System Support:
Windows 2000, XP, Vista, 7,
Server 2003, Server 2008, Server
2008 R2
Linux



Product Features

Intelligent Support for Combi and Hybrid Cards

- For Combi Card, if it is inserted into the contact card slot, ICC interface will be used and PICC interface will be disabled, as well as PC/SC Polling function for PICCs.
- For Hybrid Card, if it is inserted into the contact card slot, both ICC and PICC interfaces will be used to access the Hybrid card.

Combi card = ONE IC chip is shared by two interfaces
Hybrid card = TWO IC chips for two interfaces



Product Features

Power-saving Mode

- Antenna power is only turned on if required
- Most of time the antenna is turned off
- User is able to control the period of time for turning the antenna on/off



Product Features

Auto PPS (PICC)

- Whenever a PICC is recognized by the reader:
 - The reader can change the communication speed between the PCD and PICC by the maximum connection speed
 - The Maximum connection speed depends on the card type



Product Features

- ACR1281S-C1 is built based on a more advanced architecture
- Suitable for high speed transactions
- Suitable for highly secure environment



Product Value





What are the Key Benefits of ACR1281S-C1?

Cost Efficient

Single reader provides additional design and cost-saving benefits for systems integrators and card users.

High Security

SAM on board (Contact Interface)

PICC Support

Supports both Type A and B cards

High-Speed Transaction

Baud rate up to 848 Kbps (contactless)

Contemporary Style and Durability

- Card alignment tray for contactless card
- Landing type contact connector
- Easy to replace SAM

Ease of integration

ACR1281S-C1's serial interface along with its driverless operation, facilitates its integration into different platforms.

Ease of Technology (Migration/Upgrade)

- Quick and easy migration from contact to contactless technology
- Firmware upgradable



Product Application





In What Areas can We Apply ACR1281S-C1?



Transportation



**Payment System
(ePurse, etc.)**



**Campus Facility
Management**



Network Access



Physical Access Control



Thank You!

For more information, visit:

*[http://www.acs.com.hk/index.php?pid=product
&prod_sections=0&id=ACR1281S-C1](http://www.acs.com.hk/index.php?pid=product&prod_sections=0&id=ACR1281S-C1)*

