



ACR1281U-C1 DualBoost II

Dual Interface Smart Card Reader

Product Presentation









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Product Overview

Product Overview

ACR1281U-C1 DualBoost II Dual Interface Smart Card 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.

ACR1281U-C1 DualBoost II is the second generation of ACR128 DualBoost. Belonging, to the Contactless Product Family, it also features support for contact smart cards.

What are the Key Features of ACR1281U-C1?



Intelligent Support
Hybrid and Combi Cards

Smart Card Interfaces:

PICC (Contactless)
ICC (Contact)
SAM

Device Firmware Upgradeable via USB Interface

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

Others/Misc:

Supports Contactless Extended APDU

Protocols & Standards:

ISO 14443 Parts 1-4 Contactless
Native T=CL
ISO 7816 T= 0 & 1 Contact
PCSC and CCID
USB V2.0 (12 Mbps)
CE, FCC, RoHS

OS Support:

Windows 2000, XP, Vista, 7, Server 2003, Server 2008, Server 2008 R2 Linux, Mac

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

Power-Saving mode

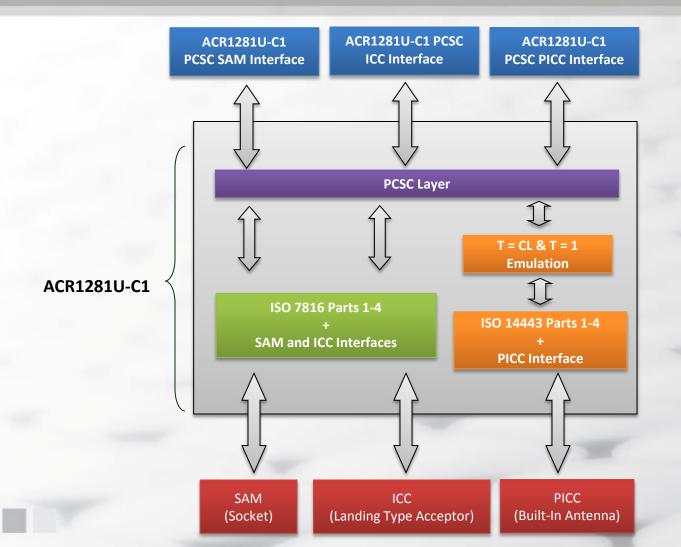
- Antenna power is only turned on if required
- Most of time the antenna is turned off
- User is able to control the period of time for turning the antenna on/off

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

- ACR1281U-C1 is built based on a more advanced architecture
- Suitable for high speed transactions
- Suitable for highly secure environment

ACR1281U-C1 Architecture



Product Value

What are the Key Benefits of ACR1281U-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 & Durability

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

Ease of integration

PCSC interface
Native T=CL support

Ease of Technology (Migration/Upgrade)

Quick and easy migration from contact to contactless technology Firmware upgradable

Product Application



In What Areas can We Apply ACR1281U-C1?





Payment System (ePurse, etc.)



Campus Facility
Management



Network Access



Physical Access Control

Thank You!!!

More information on:

www.acr1281.com

