Advanced Card Systems Ltd.
Card & Reader Technologies

ACR1281U-C1 DualBoost II

USB Dual Interface Reader

A Product Presentation

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Rundown

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Product Overview

Product Overview

ACR1281U-C1 DualBoost II
USB 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 FIPS 201 certified 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.

Product Features

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 and B
Mifare® Classic, Mifare Plus®,
Mifare® DESFire® EV1
ISO 7816 Class A, B, C
Memory Cards

User-controllable Peripherals:
LEDs
Buzzer

Others/Miscellaneous
Supports Contactless Extended APDU

Certifications/Compliance
ISO 14443, ISO 7816
FIPS 201
CE, FCC, RoHS
PCSC, CCID
Microsoft® WHQL

Operating System Support
Windows® 2000, Windows® XP, Windows Vista®, Windows® 7, Windows® 8, Windows® Server 2003, Windows® Server 2008, Windows® Server 2008 R2, Windows® Server 2012
Linux®, Mac OS X
Android™ 3.1 and above

Product Features

Intelligent Support for Combi and Hybrid Cards

• For combi cards, if the card is inserted into the contact card slot, the ICC interface will be used and the PICC interface will be disabled as well as PC/SC polling function for PICCs.

• For hybrid cards, if the card 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:

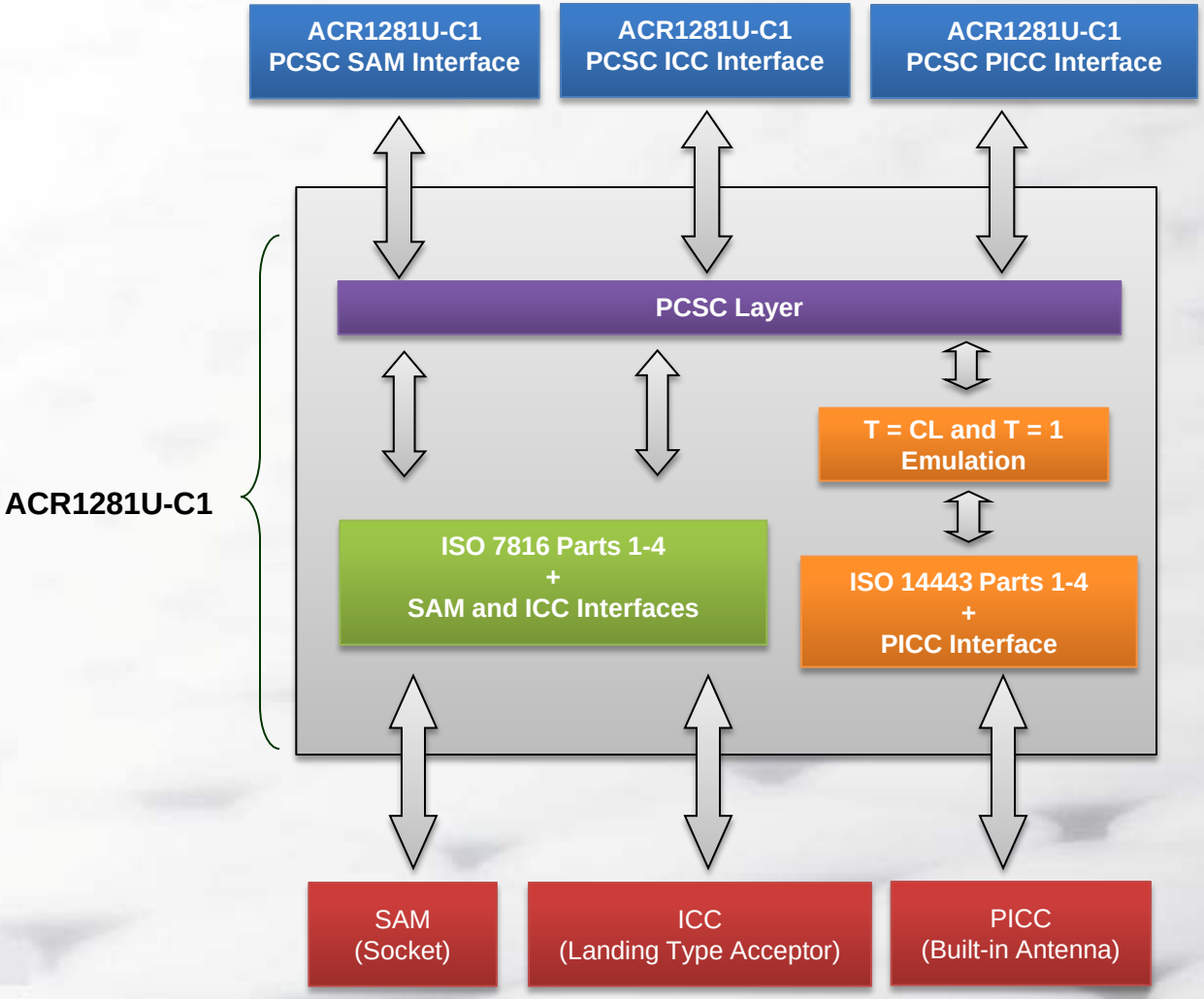
- The reader can change the communication speed between the PCD and PICC by the maximum connection speed.

- The maximum connection speed depends on the card type.

Product Features

- 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 and 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?

Transportation

Payment System
(e-Purse, etc.)

Campus Facility
Management

Network Access

Physical Access Control

Thank you!

For more information, please visit:
http://www.acr1281.com