



Advanced Card Systems Ltd.
Card & Reader Technologies



ACR122L VisualVantage

NFC Reader with LCD

Product Presentation





Rundown

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





Product Overview



Product Overview

ACR122L VisualVantage NFC Reader with LCD

The ACR122 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 and the ISO/IEC 18092 NFC standard.

ACR122L, a serial interface NFC Contactless Reader with LCD screen, is especially designed for POS terminals employing different smart card applications.





Product Features





What are the Key Features of ACR122L?



RS232 Serial Interface

Driverless Operation

Anti-Collision Support
(Only 1 tag is accessed at any time)

Selective/Direct Card Polling Capability
(The specific card is polled when multiple cards are presented)

Advanced Settings by Direct Commands
(For reduced antenna power, faster card processing, etc.)

Supported Card Types
ISO 14443 Types A & B
Mifare
FeliCa
NFC Tags

Access Speed
Maximum of 424 Kbps

User-Controllable Peripherals
2-Line Graphic LCD
Four LEDs
Buzzer
Three ISO 7816 SAM Slots

2-line Graphic LCD Features
Interactive Operability
Multiple Language Support

OS Support
Windows 98, ME, 2000, XP, Vista, 7
Server 2003, Server 2008, Server 2008 R2
Windows CE 5.0
Linux, Mac

Certifications/Compliance
CE, FCC, VCCI & ROHS





Product Features

NFC Technology-Enabled

NFC Tag Support

- Tag 1: Based on ISO 14443 A (96 bytes), e.g. Topaz
- Tag 2: Based on ISO 14443 A (48 bytes), e.g. Ultralight
- Tag 3: Based on the Japanese Industrial Standard, e.g. FeliCa
- Tag 4: Based on ISO 14443 A and B, e.g. DESFire

Source: <http://www.nfc-forum.org/specs/>





Product Features

Responding to the Growing Demand for Contactless Applications

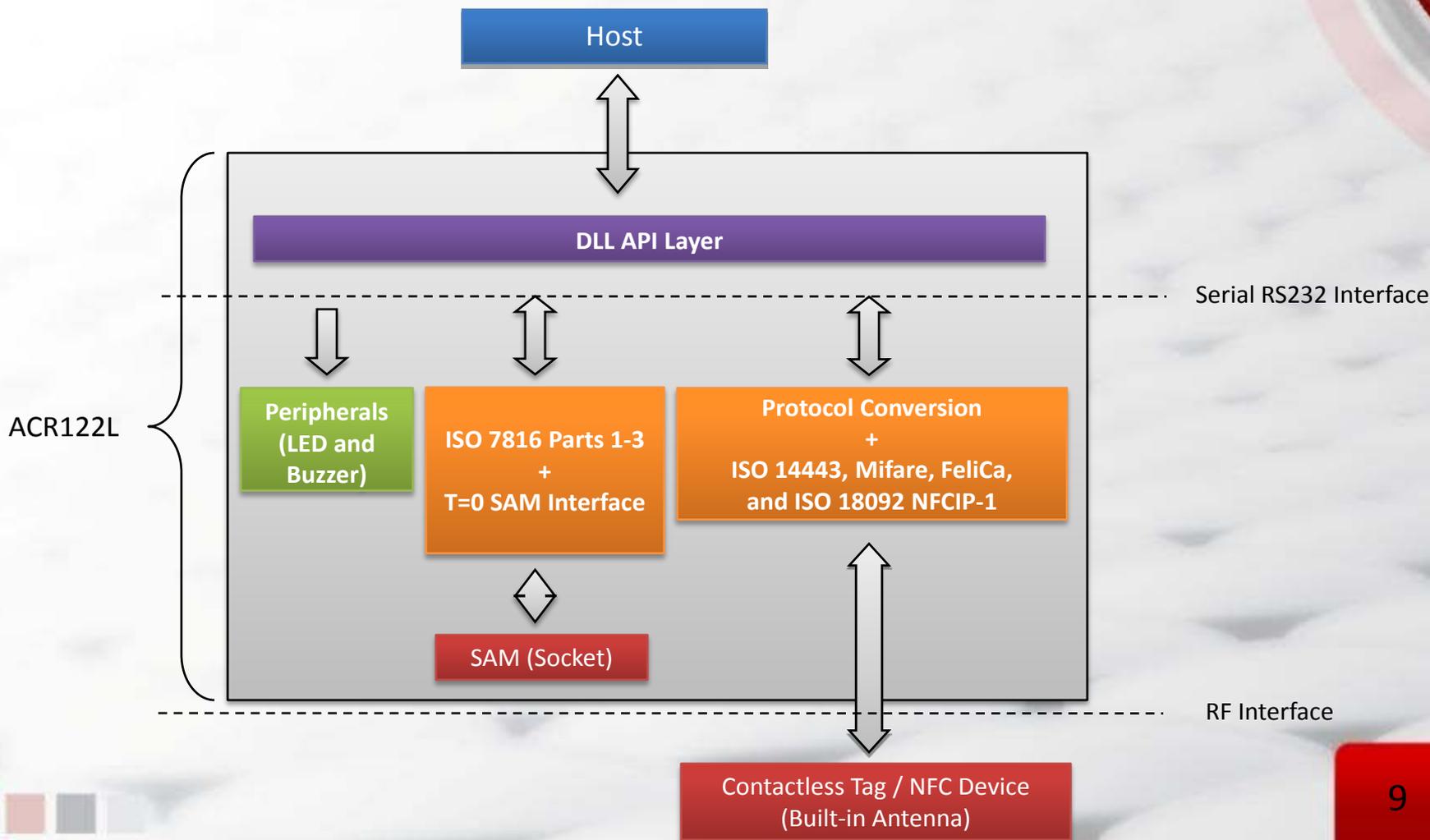
Recognizing the growing use of contactless smart card technology globally, ACR122L embraces different card types, common user scenarios and application environments.

- ACR122L supports a wide range of cards and phones (i.e. ISO 14443 Type A & B, Mifare, FeliCa and NFC tags).
- ACR122L's serial interface facilitates integration into POS terminals.
- ACR122L comes with three built-in SAM slots to secure the contactless operation.
- The ACR122L Device Peripherals include 4 LEDs, a buzzer and a 2-line graphic LCD providing rich user interaction
- The LCD provides:
 - Interactive operability (scrolling up & down, left & right, etc.)
 - Multiple language support (Chinese, English, Japanese and some European languages)
 - Graphic display





ACR122L Architecture





Product Value





What are the Key Benefits of ACR122L?

Great Convenience to Consumers

ACR122L supports anti-collision and direct polling for a specific card type. Users can tap their purses with several cards inside, and the device will only access the specific card involved in the transaction.

NFC-Enabled

ACR122L supports NFC Type 1 to Type 4 tags for different applications.

Multi-Protocol Support

ACR122L works with a wide range of contactless tags, cards and devices. In most cases, using ACR122L eliminates the need for merchants to use another reader for different cards and applications.

Great Convenience to Developers

ACR122L supports advanced settings by direct commands (i.e. reducing the strength of the antenna field to shorten the card reading distance).

Ease of Integration

ACR122L's serial interface and driverless operation facilitates its easy integration into different platforms.

Rich User Interaction

ACR122L's user-controllable device peripherals provide programmers with easy development of user-interactive applications





Product Application





In what areas can we apply the ACR122L?



Automatic Fare Collection



Cashless Payment



Vending Machines



Network Access



Physical Access Control





Thank You!!!



More information on:

http://acs.com.hk/index.php?pid=product&prod_sections=0&id=ACR122L

<http://www.acr122l.com>