



Advanced Card Systems Ltd.
Card & Reader Technologies



ACR122L VisualVantage

Serial NFC Reader with LCD

A Product Presentation





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Product Overview





Product Overview

ACR122L VisualVantage USB 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?



RS-232 for Data Transmission
7 V DC Adaptor for Power Supply

Smart Card Interface
PICC (Contactless)
SAM

Driverless Operation

Access Speed
Maximum of 424 Kbps

Supported Card Types
ISO 14443 Types A & B
MIFARE®
FeliCa
NFC Tags

User-controllable Peripherals
2-line Graphic LCD
4 LEDs
Buzzer
3 ISO 7816 SAM Sots

2-line Graphic LCD Features
Interactive Operability
Multiple Language Support

Operating System Support
Windows® 98, Windows® ME, Windows®
2000, Windows® XP, Windows® Vista,
Windows® 7, Windows® Server 2003,
Windows® Server 2008,
Windows® Server 2008 R2,
Linux®

Certifications/Compliance
ISO 14443
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., MIFARE Ultralight
- Tag 3: based on Japanese Industrial Standard e.g., FeliCa
- Tag 4: based on ISO 14443 A and B e.g., MIFARE DESFire

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

Product Features

Responding to the Growing Demand for Contactless Applications

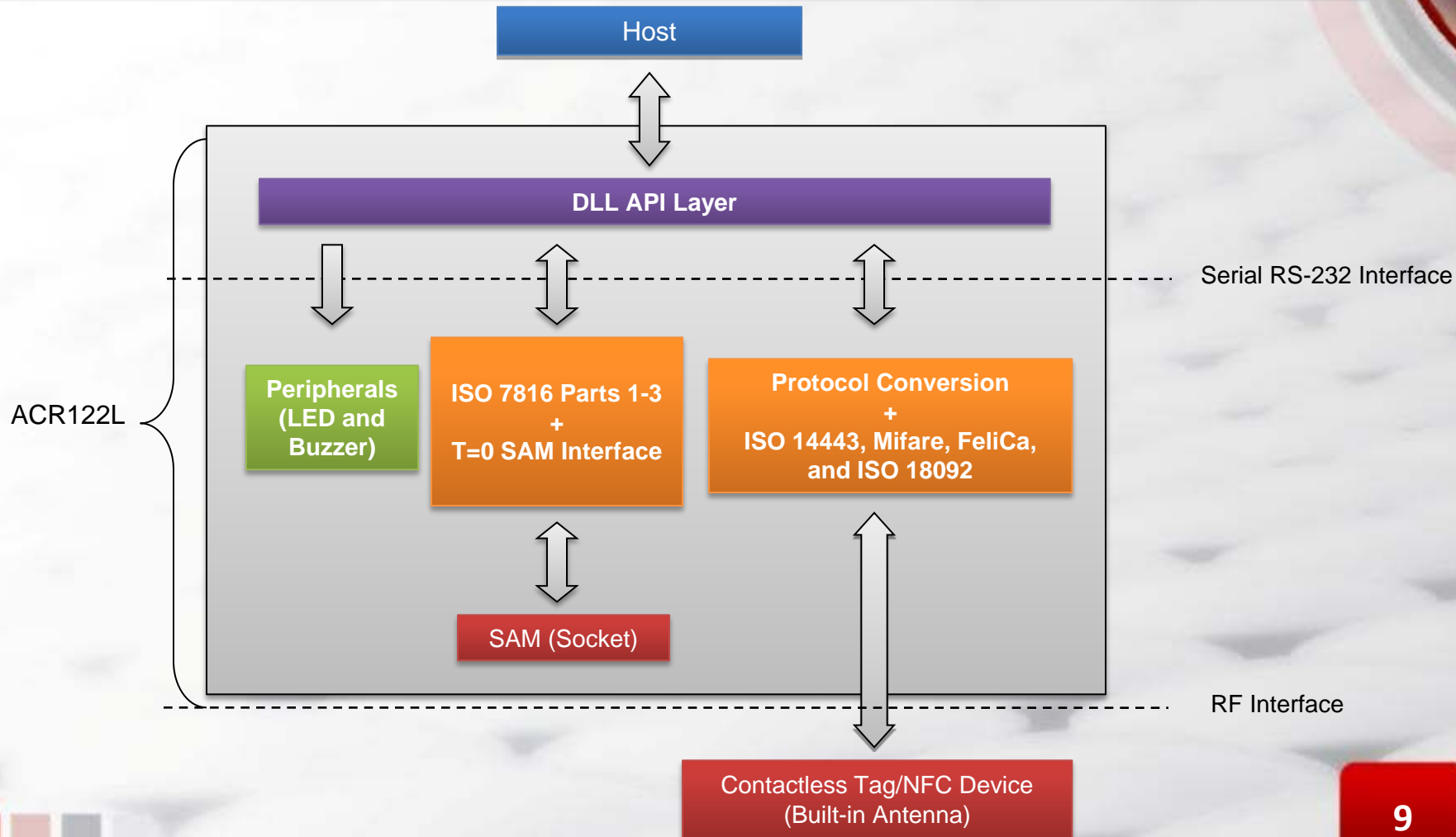
Recognizing the growing use of contactless smart card technology globally, ACR122L embraces different card types, common user scenarios and application environments.

- 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 and down, left and 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.

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).

NFC-enabled

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

Ease of Integration

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

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.

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 ACR122L?



Automatic Fare Collection



Cashless Payment



Vending Machines



Network Access



Physical Access Control



Thank You!



For more information, visit:
www.acr1221.com