



Advanced Card Systems Ltd.
Card & Reader Technologies



ACR122S

Serial NFC Reader

A Product Presentation





Rundown

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Product Overview





Product Overview

ACR122S Serial NFC Reader

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.

ACR122S, the serial interface extension of the ACR122 Series, is especially designed for embedded systems and POS terminals employing different smart card applications.



Product Features





What are the Key Features of ACR122S?



RS-232 for Data Transmission
USB for Power Supply

Smart Card Interface
PICC (Contactless)
SAM

Access Speed
Up to 424 Kbps (for FeliCa Tags)

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

Driverless Operation

User-controllable Peripherals
LEDs
Buzzer

Certifications/Compliance
ISO 18092
ISO 14443
CE, FCC, KC, VCCI
ROHS 2

Supported Operating Systems
Windows® 98, Windows® ME,
Windows® 2000, Windows® XP,
Windows® Vista, Windows® 7,
Windows® Server 2003,
Windows® Server 2008,
Windows® Server 2008 R2,
Linux®



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

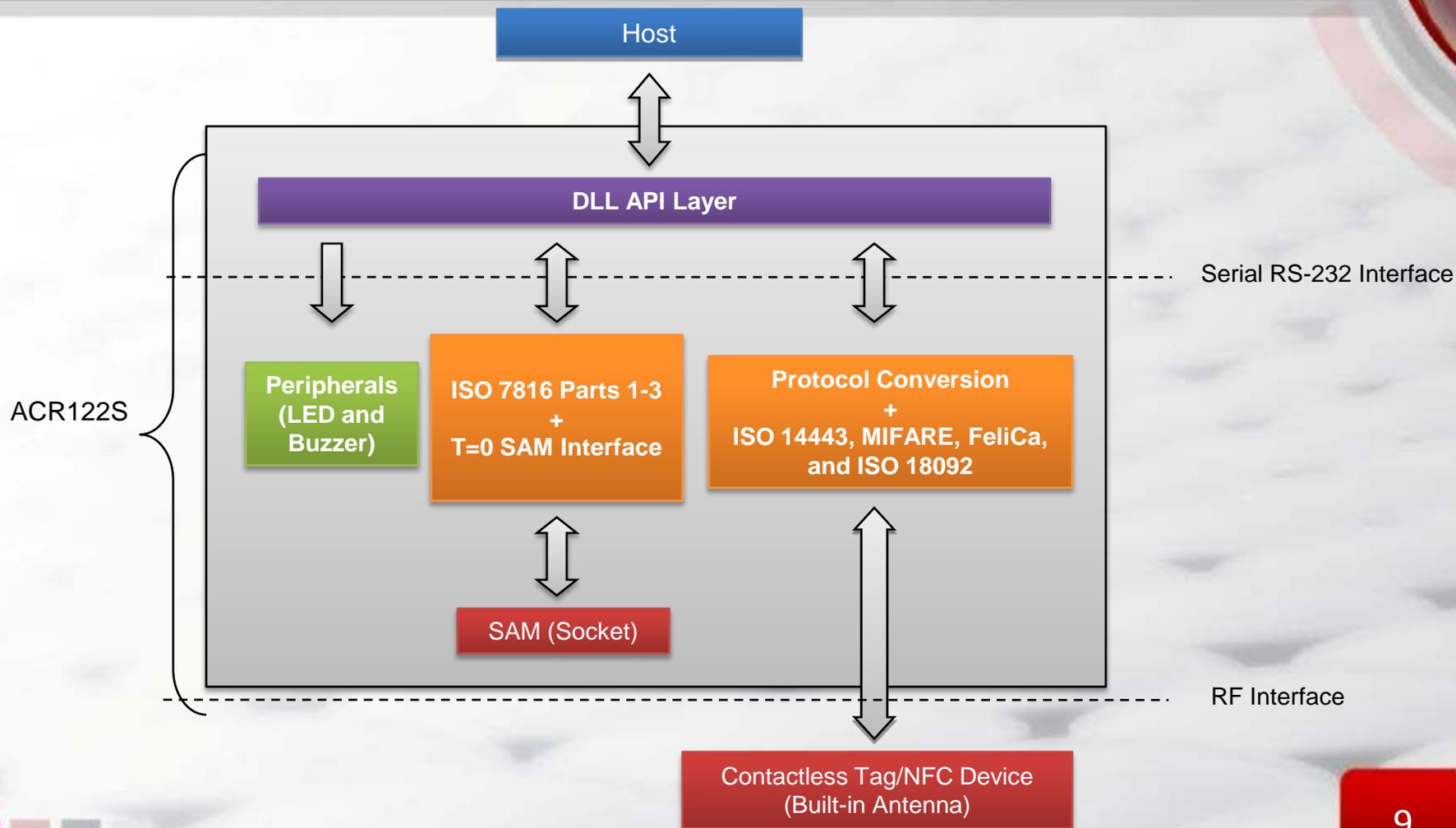
Recognizing the growing use of contactless smart card technology globally, ACR122S embraces different card types, common user scenarios and application environments.

- ACR122S supports a wide range of cards and phones (e.g., ISO 14443 Type A & B, MIFARE, FeliCa, NFC).
- ACR122S supports anti-collision and direct polling on specific card type (e.g., Works with FeliCa card only even when both FeliCa and Type A cards are presented).
- ACR122S' serial interface and PCBA module availability facilitates integration into embedded systems and POS terminals.
- ACR122S comes with a built-in SAM slot to secure the overall contactless operation.





ACR122S Architecture





Product Value





What are the Key Benefits of ACR122S?

Ease of Integration

ACR122S' serial interface and PCBA module availability, along with its driverless operation facilitates its integration into different platforms.

Great Convenience to Consumers

ACR122S supports anti-collision and direct polling on specific card type. Users just have to tap their purses even when they have several cards inside.

Great Convenience to Developers

ACR122S supports advanced settings by direct commands (i.e. Reduce antenna field strength to reduce card reading distance).

Multi-protocol Support

ACR122S works with a wide range of contactless tags and cards. Merchants do not need another reader for different cards and applications in most cases .

NFC-enabled

Supports NFC tags Type 1 to Type 4 for different applications.



Product Application





In what areas can we apply ACR122S?



Automatic Fare Collection



Smart Posters



Cashless Payment



Vending Machines



Network Access



Physical Access Control



Thank You!



For more information, visit:
www.acr122s.com