ACR123S
Intelligent Contactless Reader
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Product Overview
ACR123S Intelligent Contactless Reader

Designed to revolutionize payment transactions, the ACR123S is an intelligent contactless reader that can be integrated to existing POS (Point-of-Sale) terminals or cash registers, offering the convenience of a cashless payment system. In addition, the ACR123S Intelligent Contactless Reader is also Apple Pay® ready.
What are the Key Features of ACR123S?

**Smart Card Interfaces**
- PICC (Contactless)
- ICC (3 SAM Slots)

**Supported Card Types**
- ISO 14443 Type A & B, MIFARE® cards
- Apple Pay® Ready
- ISO 7816–compliant SAM slots (Class A)

**User-controllable Peripherals**
- Graphical LCD (128 x 64 pixels)
- Tapping Region Backlight in three Colors
- Four LEDs, Speaker

**Firmware Upgradeable**

**Fast Access Speed**

**ARM® Cortex®-M3 32-bit Processor**

**Serial RS-232 interface with RJ45 connector for data communication, USB Full Speed (12 Mbps) for power**

**Certifications/Compliance**
- ISO 14443, CE, FCC, RoHS 2, REACH, VCCI, KC

**Protocols and Standards**
- ISO 14443 Parts 1-4
- ISO 7816
- PC/SC and CCID
- USB 2.0 (12 Mbps)

**Operating System Support**
- Windows®
- Linux®
ACR123S Key Features

The ACR123S revolutionizes the customer shopping experience towards a world of faster, more convenient cashless payment systems. It can be integrated to existing POS (Point-of-Sale) terminals, making it ideal for applications like banking & payment, e-Purse & loyalty, as well as in transportation.

- ACR123S is built based on ISO 14443 and supports MIFARE® cards
- Equipped with a large graphical LCD and a large tapping area with backlight
- Allows in-field firmware upgradability function to support any future enhancements
Product Architecture

- **ACR123S PCSC SAM (1-3) Interface**
- **ACR123S PCSC PICC Interface**
- **USB Interface (CCID)**
- **PCSC Layer**
- **ISO 7816 Part 1-3 SAM**
- **T=CL & T=1 Emulation**
- **ISO 14443 Part 1-4**
- **SAM 1-3 (Socket)**
- **PICC (Built-in Antenna)**

Image of a product with labels for interfaces such as USB, PCSC, and physical interface.
Product Value
What are the Key Benefits of ACR123S?

**Multi-protocol Support**
The ACR123S supports ISO 14443 Type A and B cards and ISO 7816 Compliant SAM Cards with T=0 and T=1 protocol. It is also Apple Pay® Ready.

**Great Convenience to Consumers**
Users can complete their payment by simply tapping their cards and not rifle through their wallets for cash. ACR123S supports anti-collision and direct polling.

**Firmware Upgradeable**
In-field firmware upgrade function provides support to any future enhancements.

**Rich User Interaction**
The large tapping region with backlight provides end-users a simple and user-friendly experience when tapping their cards on the ACR123S.

**High-speed Transaction**
ACR123S has a high communication speed of up to 848 Kbps.

**High Security**
ACR123S has three built-in SAM slots to add a security layer for contactless operations.

**Ease of Integration**
- PC/SC-compliant Contactless Interface
- PC/SC-compliant SAM Interface

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*Introduction ➜ Features ➜ Product Value*
Product Application
In what areas can we apply ACR123S?

- Banking and Payment
- Transportation
- E-Purse and Loyalty
- e-Healthcare
Thank You!

http://twitter.com/SmartCardReader

http://www.facebook.com/AdvancedCardSystems

http://gplus.to/advancedcardsystems

http://www.youtube.com/user/AdvancedCardSystems

For more information, visit:

http://www.ACR123S.com/