



Advanced Card Systems Ltd.
Card & Reader Technologies



ACR123U

Intelligent Contactless Reader

Product Presentation





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Product Overview





Product Overview

ACR123U Intelligent Contactless Reader

The ACR123 Series is designed to revolutionize payment transactions and with the ACR123U (USB Version) there are more options in integrating contactless technology with existing POS (Point-of-Sale) terminals for a more convenient cashless payment experience.

The ACR123U is compliant and certified with major payment and safety standards such as MasterCard[®], Visa[®], American Express[®], EMVCo Level 1 and EMVCo Level 2 making it compatible with EMV-based contactless payment applications such as MasterCard[®] PayPass[™], Visa payWave[®], and American Express[®] ExpressPay. In addition, the ACR123U Intelligent Contactless Reader is also Apple Pay ready.



Product Features



What are the Key Features of ACR123U?



USB Full Speed (12 Mbps) for data transmission and power

Smart Card Interfaces
PICC (Contactless)
Three ISO 7816 SAM slots

ARM® Cortex®-M3 32-bit Processor

PICC Access Speed
Maximum of 848 Kbps

Anti-collision Support

Supported Card Types
MasterCard® PayPass™
Visa payWave®
American Express® ExpressPay
ISO 14443 Part 4 Types A & B
MIFARE® cards
Apple Pay Ready

User Controllable Peripherals

Graphical LCD (128 x 64 pixels)
Tapping Region Backlight in three Colors
Four LEDs
Speaker

Other Features

USB Firmware Upgradability
Removable and adjustable
Base Stand

Operating System Support

Windows® XP and above
Linux®

Certifications/Compliance

ISO 14443, CE, FCC, RoHS 2,
REACH, VCCI, KC, EMVCo Level 1,
EMVCo Level 2, MasterCard®
PayPass™, Visa payWave®,
Microsoft® WHQL



What are the Key Features of ACR123U?



EMVCo Level 1



EMVCo Level 2 PayPass™



EMVCo Level 2 payWave®



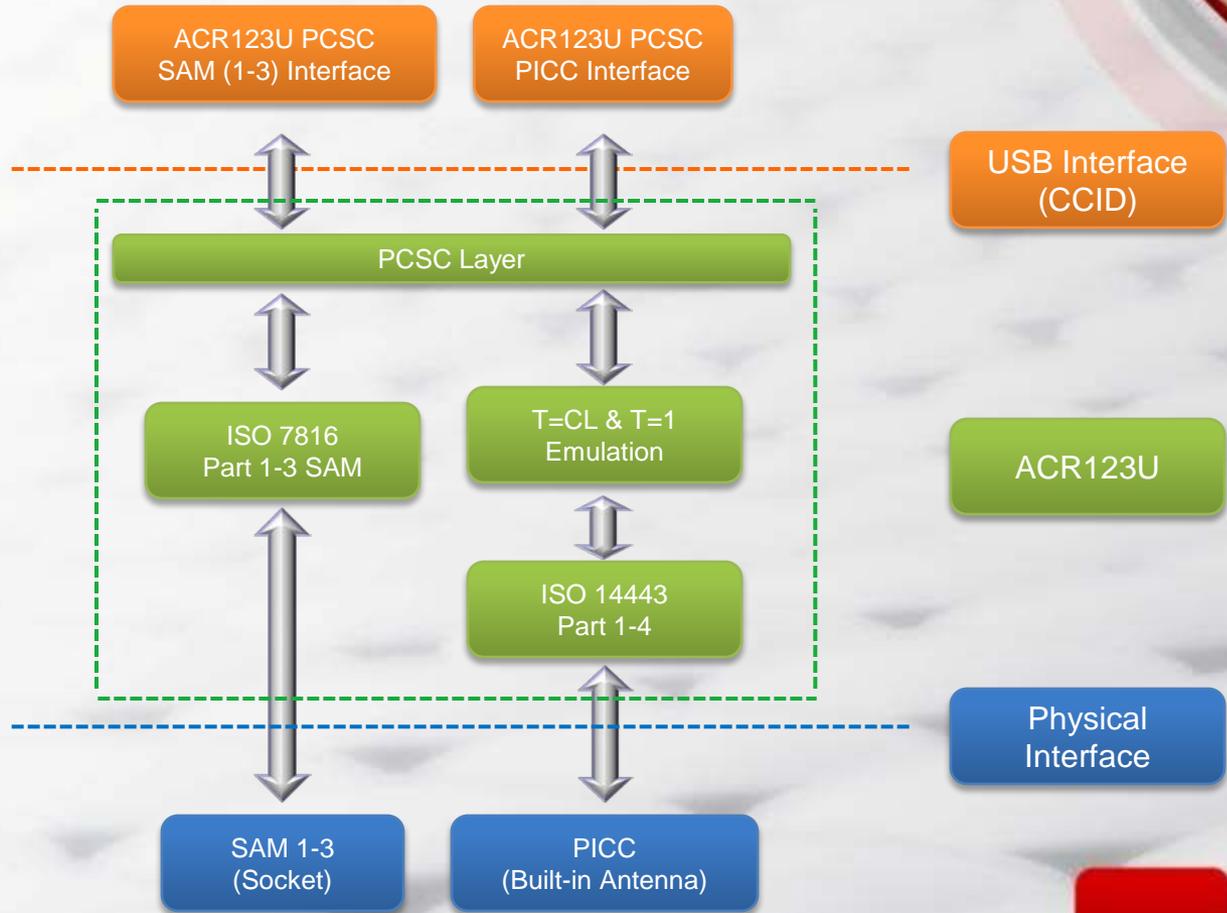
EMVCo Level 2 American Express®



Apple Pay Ready



ACR123U Architecture





Product Value





What are the Key Benefits of ACR123U?

Multi-protocol Support

ACR123U supports MasterCard® PayPass™, Visa payWave®, and American Express ExpressPay compliant cards. It is also Apple Pay Ready.

The ACR123U also supports ISO 14443 Type A and B cards and ISO 7816 Compliant SAM Cards with T=0 and T=1 protocol.

Rich User Interaction

The large tapping region with backlight provides end-users a simple and user-friendly experience when tapping their MasterCard® PayPass™, Visa payWave®, or American Express ExpressPay cards on the ACR123U.

Ease of Integration

The ACR123U uses USB Protocol and is also PC/SC Compliant. This allows interoperability with different applications and platforms.

Great Convenience to Consumers

Users can complete their payment by simply tapping their cards and not rifle through their wallets for cash. ACR123U supports anti-collision and direct polling.

High-speed Transaction

ACR123U has a high communication speed of up to 848 Kbps.

High Security

ACR123U has three built-in SAM slots to add a security layer for contactless operations.

Ease of Upgrade

ACR123U has quick and easy firmware upgradeability through its USB 2.0 Full Speed Interface.



Product Application





In what areas can we apply ACR123U?



Banking and Payment



Contactless Mobile Payment



e-Purse and Loyalty



Transportation



Thank you!



For more information, visit:
www.acr123u.com