



Advanced Card Systems Ltd.
Card & Reader Technologies



ACR123S

Intelligent Contactless Reader

Product Presentation





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Product Overview





Product Overview

ACR123S Intelligent Contactless Reader

Designed to revolutionize payment transactions, the ACR123S is an intelligent contactless reader that can be integrated to existing (Point-of-Sale) terminals or cash registers to offer the convenience of a cashless payment system.

The ACR123S is compliant and certified with major payment and safety standards such as MasterCard[®], Visa, EMV Level 1 and EMV Level 2 making it compatible with EMV-based contactless payment applications such as MasterCard[®] PayPass[™] and Visa payWave[®].



Product Features





What are the Key Features of ACR123S?



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

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

ARM 32-bit Cortex™-M3 Processor

PICC Access Speed
Maximum of 848 Kbps

Anti-collision Support

Supported Card Types
MasterCard® PayPass™
Visa payWave®
ISO 14443 Part 4 Types A & B
MIFARE® series

User Controllable Peripherals

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

Other Features

SD Card Memory Expansion
USB Firmware Upgradability
Removable and adjustable
Base Stand

Operating System Support

Windows® CE
Windows® XP and above
Mac OS X 10.5 and above
Linux®

Certifications/Compliance

ISO 14443
CE, FCC, RoHS, REACH, VCCI, KC
EMV Level 1
EMV Level 2



What are the Key Features of ACR123S?



EMV Level 1



EMV Level 2 PayPass™



EMV Level 2 payWave®

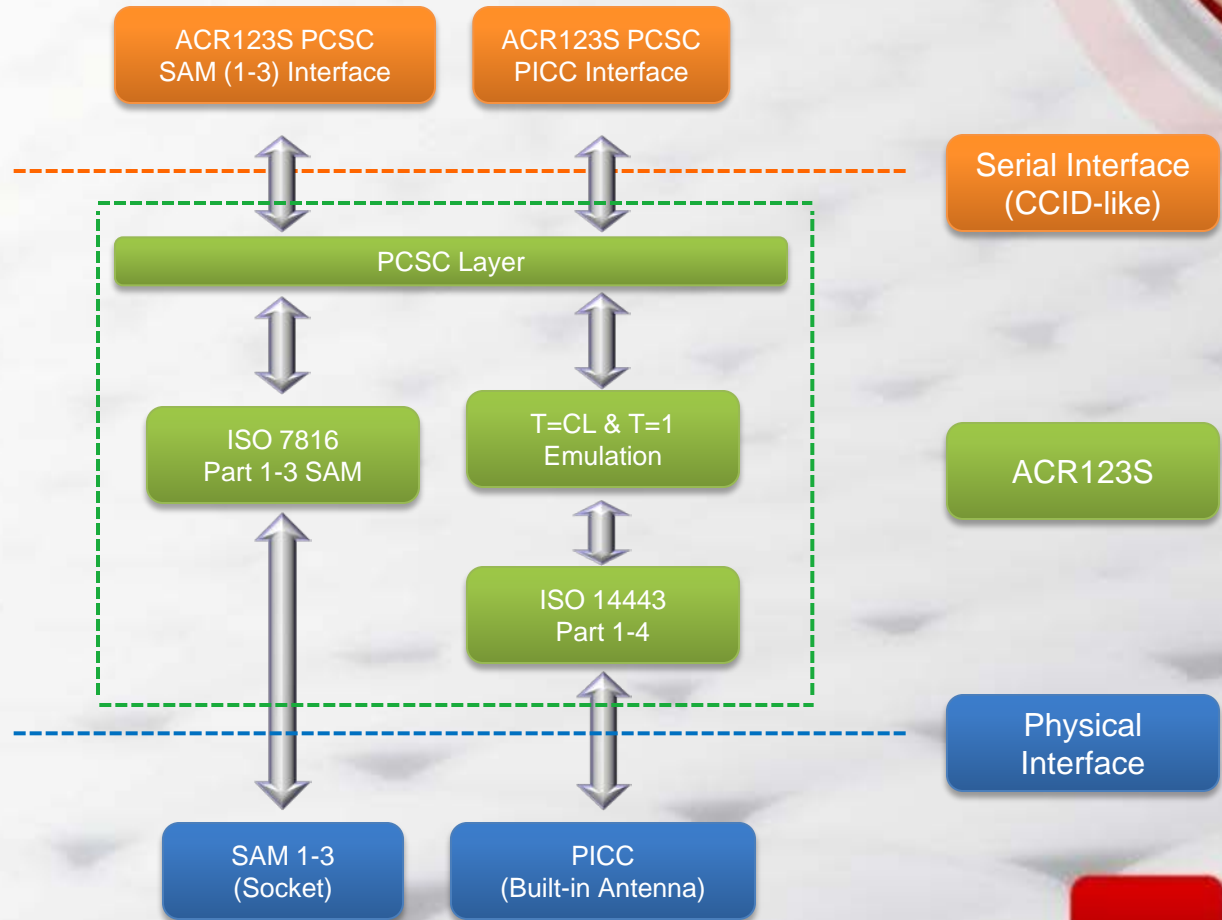


EMV Level 2 American Express





ACR123S Architecture





Product Value





What are the Key Benefits of ACR123S?

Multi-protocol Support

ACR123S supports MasterCard® PayPass™ and Visa payWave® compliant cards as well as ISO 14443 Type A and B cards. ACR123S also supports 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™ or Visa payWave® cards on the ACR123S.

Ease of Integration

The protocol between ACR123S and PC (Host) uses CCID-like protocol commands. The communication between ACR123S and PICC 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. ACR123S supports anti-collision and direct polling.

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 Upgrade

ACR123S has quick and easy firmware upgradeability through its USB 2.0 Full Speed Interface.



Product Application





In what areas can we apply ACR123S?



Contactless Mobile Payment



e-Banking and e-Payment



Loyalty Program



e-Healthcare



Transportation



Thank you!



For more information, visit:

http://www.acs.com.hk/index.php?pid=product&prod_sections=0&id=ACR123