



Advanced Card Systems Ltd.
Card & Reader Technologies



ACR1252U-A1

NFC Forum Certified Reader

A Product Presentation





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Product Overview





Product Overview

ACR1252U-A1 NFC Forum Certified Reader

The ACR1252U-A1 is a PC-linked NFC Reader that is NFC Forum certified. It is capable of the three NFC modes of operation, namely, Card Reader/Writer, Card Emulation, and Peer-to-Peer Communication.

It is PC/SC-compliant allowing interoperability and has a built-in SAM (Secure Access Module) slot which can be used for key diversification and mutual authentication providing high level security in contactless transactions.

Post-deployment firmware upgrade is also supported, eliminating the need for additional hardware modification.



Product Features





What are the Key Features of ACR1252U-A1?



Firmware Upgradable

Smart Card Interface

PICC (Contactless)
ICC (SAM Slot)

Supported Card Types

ISO 18092 Tags (NFC)
ISO 14443 Type A & B
MIFARE® variants
FeliCa
ISO 7816-compliant SAM slot
(Class A)

User-controllable Peripherals

Bi-color LED
Buzzer

Cost-effective

Fast Access Speed

Certifications/Compliance

ISO 18092, ISO 14443, ISO 7816,
NFC Forum, FeliCa Performance
Certification, LASCAM,
PC/SC, CCID, EN60950/IEC 60950,
CE, FCC, VCCI, MIC, KC,
USB Full Speed, Microsoft® WHQL ,
RoHS 2

Protocols and Standards

ISO 18092 NFC
ISO 14443 Parts 1-4
ISO 7816
PC/SC and CCID
USB V2.0 (12 Mbps)

Operating System Support

Windows®
Linux®
Mac OS®
Android™

Product Key Features

The ACR1252U-A1 offers advanced NFC features making ideal for NFC applications like Smart Posters for advertising and marketing purposes, and Peer-to-Peer communication with most NFC-enabled mobile phones in the market.

- ACR1252U-A1 is built based on ISO 14443 and ISO 18092
- Supports MIFARE®, FeliCa and NFC tags
- Provides support for NFC mobile Phones
- Allows in-field firmware upgradability function to support any future enhancements
- Suitable for different applications on various NFC environments





Product Value





What are the Key Benefits of ACR1252U-A1?

NFC Forum Certified

Supports the three NFC modes namely:
Card Reader/Writer, Card Emulation, and Peer-to-Peer Communication

Competitive Cost

ACR1252U-A1 is a cost-effective reader to extensively share and promote NFC technology to customers.

PICC Support

- ISO 18092 Tags (NFC)
- ISO 14443 Type A & B
- MIFARE variants, FeliCa

Ease of Integration

- PC/SC Compliant Contactless Interface
- PC/SC Compliant SAM Interface

Firmware Upgradeable

In-field firmware upgrade function provides support to any future enhancements

Driver-free

The CCID driver is installed through Windows Update.



Product Application





In what areas can we apply ACR1252U-A1?



P2P Communication



Smart Posters



Loyalty



e-Government



e-Commerce/e-Banking



e-Healthcare



Transportation



Network Access



Physical Access Control



Thank You!



For more information, visit:

www.acr1252.com