Advanced Card Systems Ltd.
Card & Reader Technologies

ACR122U

USB NFC Reader

A Product Presentation

Rundown

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Product Overview

Product Overview

ACR122U USB 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.

ACR122U is the world's first CCID-compliant NFC Reader which is designed to interface with a PC for different smart card applications.

Product Features

What are the Key Features of ACR122U?

Cost-effective

Smart Card Interface
PICC (Contactless)

Compact and Slim Size
98.0 mm x 65.0 mm x 12.8 mm

Access Speed
Read/Write speed of up to 424 Kbps

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

User-Controllable Peripherals
Bi-color LED
Buzzer

Certifications/Compliance
ISO 18092, ISO 14443,
PC/SC, CCID, EN60950/ISO 60950,
CE, FCC, KC, VCCI, RoHS 2,
USB Full Speed, Microsoft® WHQL

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

Operating System Support:
Windows®
Linux®
Mac OS®
Android™

NFC

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

Trendy and Slim Design

With its compact and slim casing, ACR122U can be easily implemented into different embedded systems like kiosks, laptops, etc.

- ACR122U is built based on ISO 14443 and ISO 18092

- Supports FeliCa and NFC tags

- Suitable for different applications on various NFC environments

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Product Value

What are the Key Benefits of ACR122U?

NFC-enabled
• Supports NFC tag Type 1 to Type 4 for different applications

PICC Support
• Supports most of the ISO 14443 Type A and B cards, like MIFARE cards

Ease of Integration
• PC/SC Interface
• Slim design

Competitive Cost
ACR122U is made affordable in order to extensively share and promote NFC technology to customers.

Driver-Free
The Unified driver is installed through Windows Update.

Product Application

In what areas can we apply ACR122U?

Smart Posters

Cashless Payment

Automatic Fare Collection

Vending Machines
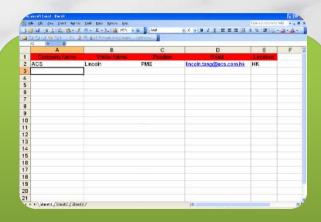
Network Access

Physical Access Control

How to Use ACR122U? - Overview
Sample Scenario: Simple Visitor Management

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mifare

Software

Record visitor information in MS Excel or any spreadsheet application.

Thank You!

For more information, visit:
http://www.acs.com.hk/acr122.php