



Advanced Card Systems Ltd.
Card & Reader Technologies



ACR122U

USB NFC Reader

A Product Presentation



www.acs.com.hk



Rundown

1. Product Overview
2. Product Feature
3. Product Value
4. Product Application



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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.

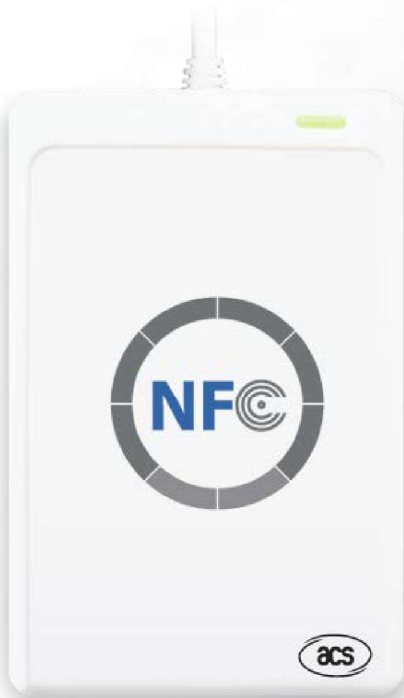


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Product Features



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™



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





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.



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Product Application



In what areas can we apply ACR122U?



Automatic Fare Collection



Smart Posters



Cashless Payment



Vending Machines



Network Access

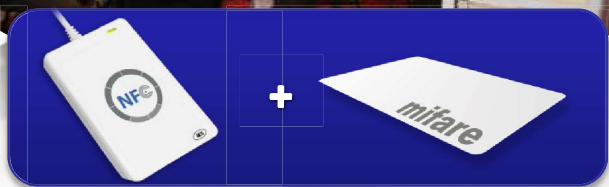


Physical Access Control



How to Use ACR122U? - Overview

Sample Scenario: Simple Visitor Management



	A	B	C	D	E	F
1	Company Name	Visitor Name	Position	Phone	Country	
2	ACS	Leoch	FME	lncob.zang@acs.com.hk	HK	
3						
4						
5						
6						
7						
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20						
21						

Record visitor information in MS Excel or any spreadsheet application.



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Thank You!



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

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