

USB NFC Reader ACR122U-A9

General

- The ACR122U-A9 NFC Reader is a PC-linked contactless smart card reader/writer developed based on 13.56 MHz Contactless (RFID) Technology. Compliant with the ISO/IEC18092 standard for Near Field Communication (NFC), it supports not only MIFARE® and ISO 14443 A and B cards, but also all four types of NFC tags.
- ACR122U-A9 is compliant with both CCID and PC/SC. Thus, it is a plug-and-play USB device allowing interoperability with different devices and applications. With an access speed of up to 424 kbps and a full USB speed of up to 12 Mbps, ACR122U-A9 can also read and write more quickly and efficiently. The proximity operating distance of ACR122U-A9 is up to 5 cm, depending on the type of contactless tag in use.
- In order to increase the security level, ACR122U-A9 can be integrated with an ISO 7816-3 SAM slot. Furthermore, the ACR122U-A9 NFC Reader is available in module form, permitting easy integration into bigger machines, such as POS terminals, physical access systems and vending machines.
- The ACR122U-A9 NFC Reader is ideal for both secure personal identity verification and online micro-payment transactions. Other applications of the ACR122U-A9 include access control, e-payment, e-ticketing for events and mass transit, toll road fare collection and network authentication.

Feature

- USB 2.0 Full Speed Interface
- CCID Compliance
- Smart Card Reader:
 - Read/write speed up to 424 kbps
 - Built-in antenna for contactless tag access, with card reading distance of up to 50 mm (depending on tag type)
 - Supports ISO 14443 Type A and B cards, MIFARE, FeliCa, and all 4 types of NFC (ISO/IEC 18092) tags
 - Built-in anti-collision feature (only 1 tag is accessed at any time)
- Application Programming Interface:
 - Supports PC/SC
 - Supports CT-API (through wrapper on top of PC/SC)
- Peripherals:
 - User-controllable bi-color LED
 - User-controllable buzzer
- Supports Android™ OS 3.1 and above



Specification

Dimensions	98 mm (L) x 65 mm (W) x 12.8 mm (H)
Weight	70 g
USB Interface	
Power Source	From USB port
Protocol	USB CCID
Speed	USB Full Speed (12 Mbps)
Connector Type	Standard Type A
Cable Length	1.0 m, Fixed
Contactless Smart Card Interface	
Protocol	ISO 14443-4 Compliant Card, T=CL MIFARE® Classic Card, T=CL ISO18092, NFC Tags FeliCa
Standard	ISO/IEC 18092 NFC, ISO 14443 Type A & B, MIFARE®, FeliCa
Built-in Peripherals	
LED	1 bi-color: Red and Green
Buzzer	Monotone
Certifications/Compliance	EN 60950/IEC 60950 ISO 18092 ISO 14443 USB Full Speed PC/SC CCID VCCI (Japan) KC (Korea) Microsoft® WHQL CE FCC RoHS 2 REACH
Device Driver Operating System Support	Windows® CE Windows® Linux® MAC OS® Solaris Android™

Application

- Home Banking and Home Shopping
- E-commerce

- Checking the balance of electronic purses
- Network access control
- Customer Loyalty Program
- Identification and Authentication
- Ticketing
- Online gaming
- Parking and toll collection
- Automatic Fare Collection
- Public Transportation Terminals
- Physical Access Control
- Time attendance
- Vending machines
- Contactless public phones
- Logistics and supply chain management

Picture

