

ACR122L

VisualVantage
NFC Reader with LCD

Technical Specifications





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1.0. Introduction



The ACR122L is a serial NFC contactless reader with LCD screen. Developed based on the 13.56 MHz RFID technology and the ISO/IEC 18092 NFC standard, it supports ISO 14443 Type A and B cards, Mifare, FeliCa and NFC technologies, including all 4 types of NFC tags and all 3 modes – reader, peer-to-peer and card emulation modes.

ACR122L has a built-in anti-collision feature and direct card type polling commands that enable smooth operation in cases where multiple cards are present. ACR122L comes with 4 LEDs, a buzzer and an LCD, providing users with a clear indication of the reader's status. The 2-line graphic LCD has multiple language support, including language support for Chinese, English, Japanese and some European languages. It allows

interactive operation, such as scrolling up and down, left and right etc. Finally, ACR122L is equipped with three built-in SAM slots that provide enhanced security in contactless operations.



2.0. Features

- Serial RS232 Interface (Baud Rate = 115200 bps, 8-N-1)
- 7V DC for power supply
- CCID-like frame format (Binary format)
- Read/write speed of 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 Part 4 Type A and B cards, Mifare, FeliCa and all 4 types of NFC (ISO/IEC 18092) tags
- Supports new Mifare Ultralight C, Mifare Plus and DESFire EV1
- Support for all 3 modes of NFC: reader, card emulation and peer-to-peer modes
- Built-in anti-collision feature (only one tag is accessed at any time)
- Selective card polling capability (especially useful when multiple cards are presented)
- 2-line graphic LCD with interactive operability (i.e. scroll up and down, left and right etc) and multi-language support (i.e. Chinese, English, Japanese and some European languages)
- Three ISO 7816-compliant SAM slots
- Four User-controllable LEDs
- User-controllable buzzer



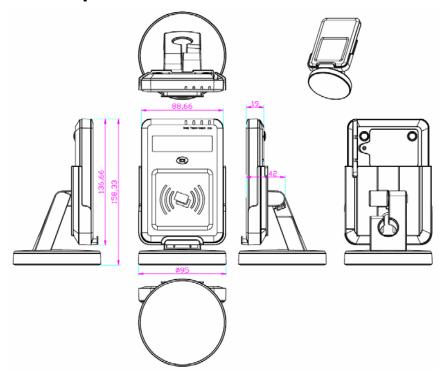
3.0. Typical Applications

- e-Government
- e-Banking and e-Payment
- e-Healthcare
- Transportation
- Network Security
- Access Control
- Loyalty Program





4.0. Technical Specifications



Serial Interface

Power Source7V DC

Supply Current200 mA (maximum); 50 mA (standby); 100 mA (normal)

Contactless Smart Card Interface

SAM Card Interface

Standard ISO 7816
Protocol T=0 protocol
Operating Frequency 4 MHz

Smart Card Read / Write Speed9600 – 115200 bps

Physical Specifications

ColorBlack

Operating DistanceUp to 50 mm (depending on tag type)

Built-In Peripherals

LED Status Indicators4 LEDs: Green, Blue, Orange and Red

Buzzer.....Monotone

Operating Conditions

Temperature 0 - 50° C Humidity 10% - 80%

Cable Connector
Length.....

Certifications/Compliance

CE, FCC, VCCI, RoHS

Device Driver Operating System Support

Windows ® 98, ME, 2000, XP, Vista, 7, Server 2003, Server 2008, Server 2008 R2

Windows CE ® 5.0

Linux, Mac



