

## ACR122L VisualVantage NFC Reader with LCD Software Development Kit



ACR122L is a serial interface NFC contactless reader with a 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.

ACR122L comes with 4 LEDs, a buzzer and a LCD screen, 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. Finally, ACR122L is equipped with three built-in SAM slots that provide enhanced security in contactless operations.

Designed to be easily integrated with embedded systems and POS terminals, ACR122L offers convenience in applications such as payment systems and loyalty programs. It comes in a complete Software Development Kit (SDK), which contains all the vital components facilitating the development of contactless for smart card applications. The SDK provides the user with sample applications, tools and utilities, and sample codes, enabling them to conveniently and effectively incorporate ACR122L into their solutions.

### ACR122L NFC Reader with LCD

- Serial RS232 Interface
- 7V DC for power supply
- CCID-like frame format (Binary format)
- 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, Mifare®, FeliCa and all 4 types of NFC (ISO/IEC 18092) tags
- Supports new Mifare Ultralight C, Mifare Plus and DESFire EV1
- Supports 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 (128 x 32 pixels)
- Three ISO 7816 compliant SAM slots
- Four User-controllable LEDs

- User-controllable buzzer
- Supported OS: Windows ® 98, ME, 2000, XP, Vista, 7, Server 2003, Server 2008, Server 2008 R2, CE 5.0, Linux, Mac

### **Test Cards**

- 5 x Mifare 1K Cards
- 3 x ACOS6-SAM Cards

### **CD-ROM**

- Tools & Utilities
  - ACR122L Tool – enables you to perform reader and card-related commands
  - QuickView – checks for proper driver installation
  - ACS Easy Key – allows you to change Mifare security settings
- Sample Codes
  - Demonstrate basic commands used to communicate with the cards and reader
  - Available in the following programming languages: Java, Visual Basic 6.0, Visual Basic .NET 2008, Visual Basic .NET 2008 (x64), Visual C# .NET 2008, Visual C# .NET 2008 (x64), Visual C++ 6.0, Visual C++ (x64) and Turbo Delphi 2006
- Demo Application
  - POS and Loyalty Demo
- Reference Manuals
- Operating System Support
  - Windows ® XP, Vista and 7 (x86 and x64)