Advanced Card Systems Ltd.
Card & Reader Technologies

ACR1222L VisualVantage
USB NFC Reader with LCD

Product Presentation

www.acs.com.hk
Rundown

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

ACR1222L VisualVantage
USB NFC Reader with LCD

ACR1222L is an LCD-equipped PC-linked NFC contactless reader having USB as its host interface.

The ACR1222 Series is an extension of ACS’ successful ACR122 Series. Both ACR122 and ACR1222 is a family of Contactless Smart Card Readers sharing the same core. The readers are developed based on the 13.56 MHz contactless smart card technology and the ISO/IEC 18092 NFC standard.
What are the Key Features of ACR1222L?

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

**USB Full Speed (12 Mbps)**

**Smart Card Interfaces**
- PICC (Contactless)
- SAM

**USB Firmware Upgradability**

**Access Speed**
- Maximum of 424 Kbps

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

**Anti-Collision Support**
- Only 1 tag is accessed at any time

**User Controllable Peripherals**
- 2-Line Graphic LCD
- Four LEDs
- Buzzer
- Three ISO 7816 SAM Sots

**2-line Graphic LCD Features**
- Interactive Operability
- Multiple Language Support

**Operating System Support**
- Windows®
- Linux®
- Mac®
- Android™

**Certifications/Compliance**
- ISO14443, ISO 18092, CE, FCC, KC, VCCI, RoHS 2
- PC/SC, CCID
- Microsoft® WHQL
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/
Recognizing the growing use of contactless smart card technology globally, ACR1222L embraces different card types, common user scenarios and application environments.

- ACR1222L supports a wide range of cards and phones (i.e. ISO 14443 Type A & B, MIFARE, FeliCa and NFC tags).
- ACR1222L comes with three built-in SAM slots to secure contactless operations.
- ACR1222L Device Peripherals include 4 LEDs, a buzzer and a 2-line graphic LCD for rich user interaction.
- The LCD provides:
  - Interactive operability (scrolling up & down, left & right, etc.)
  - Multiple language support (Chinese, English, Japanese and some European languages)
  - Graphic display
Product Value
What are the Key Benefits of ACR1222L?

**Great Convenience to Consumers**
ACR1222L supports anti-collision and direct polling for a specific card type. Users can tap their purses with several cards inside, and the device will only access the specific card involved in the transaction.

**Multi-Protocol Support**
ACR1222L works with a wide range of contactless tags and cards. In most cases, using ACR1222L eliminates the need for merchants to use another reader for different contactless cards and applications.

**High Security**
ACR1222L has built-in SAM slots to secure contactless operations.

**Rich User Interaction**
ACR1222L’s user-controllable device peripherals provide programmers with easy development of user-interactive applications.

**Ease of Integration**
ACR1222L is PC/SC-compliant, allowing interoperability with different applications and platforms.

**Ease of Upgrade**
ACR1222L has quick and easy firmware upgradability through its USB interface.
Product Application
In what areas can we apply ACR1222L?

- Automatic Fare Collection
- Cashless Payment
- Network Access
- Physical Access Control
Thank You!

For more information, visit:
www.acr1222l.com