Advanced Card Systems Ltd.
Card & Reader Technologies

ACR1283L
Standalone Contactless Reader

Product Presentation

Rundown

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Product Overview

Product Overview

ACR1283L VisualVantage Standalone Contactless Reader

Belonging to the Contactless Product Family, this extension to the product line also supports both standalone and keypad features.

This multi-application reader is designed to operate in standalone mode for conventional contactless smart card applications.

Product Features

What are the Key Features of ACR1283L?

Dual Operation Modes
PC-linked
Standalone

Smart Card Interfaces
PICC (Contactless)
SAM

PC-linked Mode
USB 2.0 Full Speed Interface
CCID and PCSC Compliance

Standalone Mode
Supports third party application
400 KB memory for application
500 KB memory for data storage

Standalone Development Platform
IAR Embedded Workbench 5.50 & up
CoIDE(GCC) 1.3.0 & up

Other Features
Real-time Clock
In-Device AES/DES/3DES Encryption
Firmware Upgradeability

Supported Card Types
ISO 14443 Type A and B
Mifare, Mifare Plus, DESFire EV1

User-controllable Peripherals:
2-line Graphic LCD
12-Key Capacitive Touch Keypad
Four LEDs
Buzzer
Four ISO 7816 SAM Sots

Protocols and Standards
ISO 14443 Parts 1-4 Contactless
ISO 7816 T= 0 and 1 (SAM)
PCSC and CCID
USB V2.0 (12 Mbps)
CE, FCC, RoHS

OS Support
Windows 2000, XP, Vista, 7,
Server 2003, Server 2008, Server 2008 R2,
Linux, Mac OS X
Android™ 3.1 and above

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Product Value

What are the Key Benefits of ACR1283L?

Great Convenience to Consumers
ACR1283L 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.

Rich User Interaction
ACR1283L's user-controllable device peripherals (LCD, keypad, LEDs, and buzzer) provide programmers with easy development of user-interactive applications.

High-speed Transaction
Baud rate up to 848 Kbps (contactless).

Ease of Integration
ACR1283L is PC/SC-compliant, allowing interoperability with different applications and platforms.

High Security
ACR1283L has built-in SAM slots to secure contactless operations.

Ease of Upgrade
ACR1283L has quick and easy firmware upgradeability through its USB interface.

Product Application

In what areas can we apply ACR1283L?

Payment System
(e-Purse, etc.)

Time and Attendance

Transportation

Network Access

Physical Access Control

ACR1283L Sample Application: Time and Attendance Application
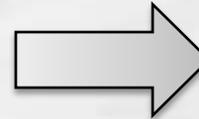
Register & Issue User Cards

User taps his card on the ACR1283L

User information can be viewed on device LCD or in the PC's monitor

Database

Each card contains user information needed.

The ACR1283L verifies the card information and records the date/time for timekeeping.

The application data can be stored both in the PC or in the device, which can be transferred to the PC later on.

Thank You!