Advanced Card Systems Ltd.
Card & Reader Technologies

ACR1283L

User Manual

V1.00.00

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ACR1283L User Manual.doc

Prepared by:	Reviewed by:	Approved by:

Version History

Date	By	Changes	Version
2012-1-4	Vincent Zhong Lampard Ou Kit Au	• First Release	1.00.00
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1.0. Introduction

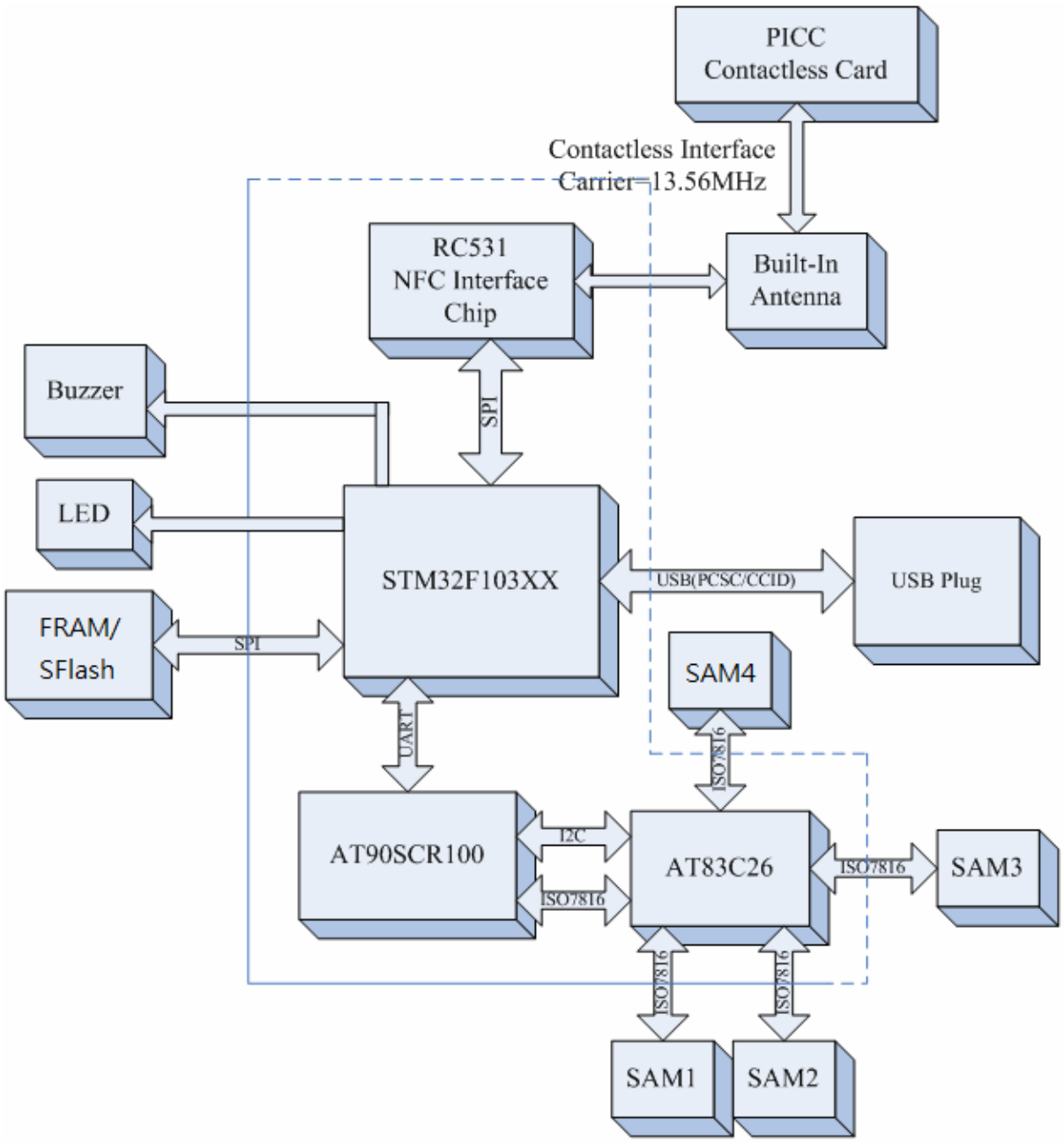
ACR1283L is a PC-linked reader with 1 contactless interface, 4 SAM interface

2.0. Features

- Plug and play USB with 12Mbps；
- Complies with PCSC/CCID standard ；
- Complies with ISO 7816 part 1 to 4 for all SAM slots；
- Supports the following Tag Types:
  - MIFARE Classic. E.g. MIFARE 1K, 4K, MINI and Ultralight ；
  - ISO14443-4 Type A；
  - ISO14443-4 Type B；
- Upgrade firmware through USB interface；
- Programmable by end user；
- User-controllable peripherals, e.g. LED, Buzzer
- Reading range for contactless tag is about 4 -5 cm, depend on card type and environment ；
- Support encryption algorithms, e.g. DES、3DES、AES;

3.0. Architecture

SCM32 is for main processor for communication with PC, and control the contactless chip, communication with AT90 with connect with SAM card and peripherals. RC531 act as a contactless chip to perform the communication between contactless tags and SCM32



4.0. Connection with computer

4.1. Plug the ACR1283L to a computer USB port, it is just providing the power for ACR1283L

4.2. No driver is required, When you put a contactless card on the reader, the green LED at the “Ready” logo will flash

4.3. When you put a mifare card on it, you will hear a beep sound and the green LED will be highlighted, the UID will be shown on APDU program

Warning：

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.