

ACR1281U-C2 Card UID Reader

Technical Specifications V1.04



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1.0. Introduction

ACR1281U-C2 is a contactless card UID (Unique Identification Number) reader especially designed to get the UID of any ISO 14443 Parts 1-4 Type A and B—compliant contactless card in an efficient way. Its sole focus is to retrieve the card's UID and display it directly in any text editor such as Notepad, Microsoft® Excel and Microsoft® Word.

When a contactless card (e.g., MIFARE® DESFire® card) is tapped onto the ACR1281U-C2, the reader retrieves the UID and automatically returns the UID to the computer. Since it is HID (Human Interface Device)—compliant, this device does not require any additional driver to be installed in the computer. The ACR1281U-C2 also has an anti-collision feature that ensures only one card is accessed when multiple cards are presented at the same time.

ACR1281U-C2 Card UID Reader can support Windows®, Linux®, Mac OS®, and other embedded systems.

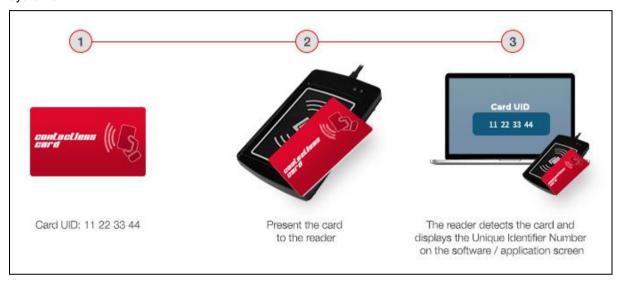


Figure 1: ACR1281U-C2 Sample Application



2.0. Features

- USB 2.0 Full Speed Interface
- USB HID Keyboard Class Emulation
- Smart Card Reader:
 - Contactless Interface:
 - Read/Write speed of up to 848 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, and MIFARE® cards
 - Built-in anti-collision feature (only one tag is accessed at any time)
- USB Firmware Upgradability
- Compliant with the following standards:
 - o ISO 14443
 - USB HID
 - o CE
 - o FCC
 - o RoHS

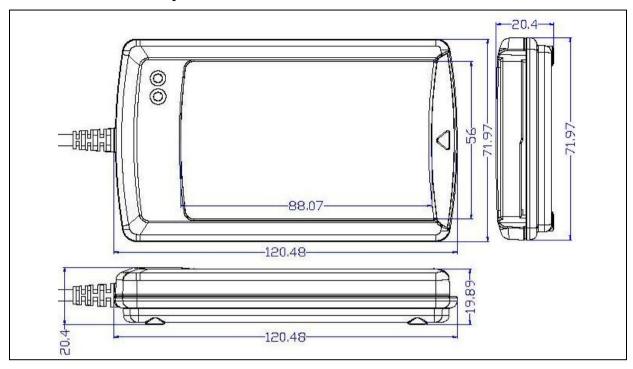


3.0. Typical Applications

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



4.0. Technical Specifications



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USB Host Interface

Protocol......USB HID Keyboard Class

Connector Type Standard Type A Power Source...... From USB port

Speed......USB Full Speed (12 Mbps)

Supply Voltage 5 V

Contactless Smart Card Interface

Standard ISO 14443 A and B Parts 1-4

Protocol......ISO 14443 T=CL for ISO 14443-4-compliant cards

......T=CL Emulation for MIFARE Classic

Operating Frequency 13.56 MHz

Antenna Size...... 65 mm × 60 mm

Built-in Peripherals

Buzzer..... Monotone

Other Feature

Firmware Upgrade Supported

Operating Conditions

Temperature...... 0 $^{\circ}$ C - 60 $^{\circ}$ C

Humidity Max. 90% (non-condensing)

MTBF 500,000 hrs

Certifications/Compliance

ISO 14443, USB Full Speed, USB HID, CE, FCC, RoHS



Operating System Support

Windows®, Linux®, Mac OS®







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