

ACR1281U-C2 Card UID Reader

Technical Specifications V1.03





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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.

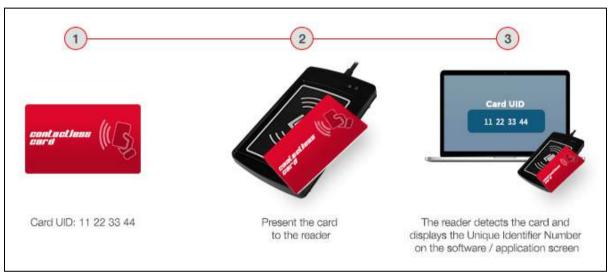


Figure 1: ACR1281U-C2 Sample Application

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2.0. Features

- USB 2.0 Full Speed Interface
- USB HID Keyboard Class Emulation
- Smart Card Reader:
 - o 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
 - o USB HID
 - o CE
 - o FCC
 - o RoHS 2

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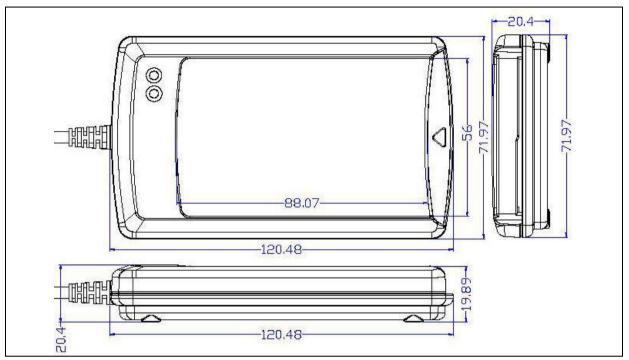
3.0. Typical Applications

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

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4.0. Technical Specifications



Physical Characteristics				
	120.5 mm (L) × 72.0 mm (W) × 20.4 mm (H)			
Weight	0			
Color	Black			
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				
Supply Current				
Cable Length				
Contactless Smart Card Inte				
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			
	Up to 50 mm (depending on card type)			
	106 Kbps, 212 Kbps, 424 Kbps, 848 Kbps			
Antenna Size				
Built-in Peripherals				
LED	2 single-color: Red and Green			
Buzzer	Monotone			
Other Feature				
Firmware Upgrade	Supported			
Operating Conditions				
Temperature	0 °C – 60 °C			
Humidity				
MTBF				
Certifications/Compliance				
ISO 14443, USB Full Speed, USE	SHID CE ECC BOHS 2			

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Operating System Support Windows®, Linux®, Mac OS®



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