

# ACR1281U-C8 Contactless Reader/Writer



**Technical Specifications V1.00** 



# **Table of Contents**

1.0.	Introduction	3
2.0.	Features	3
3.0.	Typical Applications	3
4.0.	Technical Specifications	4
4.1.	ACR1281U-C8 Reader	4



# 1.0. Introduction



The ACR1281U-C8 is the new version of ACS's ACR120U Contactless Smart Card Reader. It is a compact and cost-effective device developed based on the 13.56 MHz contactless smart card (RFID) technology, with proximity operating distance up to 5 cm, depending on the type of contactless tag in use (supports Mifare and ISO 14443 Type A and Type B cards).

The versatile reader is available in USB interface version, which can easily be integrated into a PC environment as well as other systems. It is ideal for a broad range of applications, including public transport terminals, physical and logical access controls, and even vending machines.

# 2.0. Features

- USB PnP interface
- Read and write functionality
- Smart Card Reader:
  - Built-in antenna for contactless tag access, with card reading distance of up to 50 mm
  - Supports for ISO 14443 Type A and B cards, Mifare
  - Built-in anti-collision feature (only one tag is accessed at any time)
  - Selective card polling capability (especially useful when multiple cards are presented)
- Built-in Peripherals:
  - o Two LEDs (Red and Green)
  - o Buzzer
- Firmware Upgradability
- 2m USB cable
- · Compliant with the following standards:
  - o CE
  - o FCC
  - o RoHS

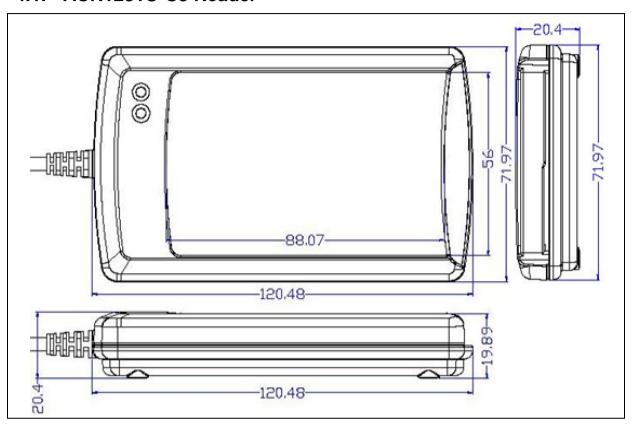
# 3.0. Typical Applications

- e-Government
- e-Banking and e-Payment
- e-Healthcare
- Public Key Infrastructure
- Network Security
- Access Control
- Loyalty Program



# 4.0. Technical Specifications

# 4.1. ACR1281U-C8 Reader



### Universal Serial Bus Interface

 Power Source
 From USB

 Speed
 12 Mbps (High Speed)

 Supply Voltage
 Regulated 5 V DC

 Supply Current
 200 mA

# **Contactless Smart Card Interface**

Smart Card Read/Write Speed ...... 106 kbps

### Physical Specifications

### **Certification/Compliance**

CE, FCC, RoHS

### **Device Driver Operating System Support**

Windows® 98, ME, 2000, XP, Vista, 7, Server 2003, Server 2003 R2, Server 2008, Server 2008 R2 Linux

### Others

ACS ACR120U backward compatiable

