



Advanced Card Systems Ltd.
Card & Reader Technologies

ACR1281U-C8 Contactless Reader/Writer

Technical Specifications V1.00





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1.0. Introduction



The ACR1281U-C8 is the new version of ACS' ACR120U (USB) 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.

This model is features a USB interface version which can easily be integrated into a computer-based 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 interface
- Read and write functionality
- Smart Card Reader:
 - o Built-in antenna for contactless tag access, with card reading distance of up to 50 mm
 - o Supports for ISO 14443 cards such as MIFARE® Classic
 - o Built-in anti-collision feature (only one tag is accessed at any time)
 - o Selective card polling capability (especially useful when multiple cards are presented)
- Built-in Peripherals:
 - o LED
 - o Buzzer
- OEM PCBA module version (upon request)
- Firmware Upgradability
- Compliant with the following standards:
 - o CE
 - o FCC
 - o RoHS

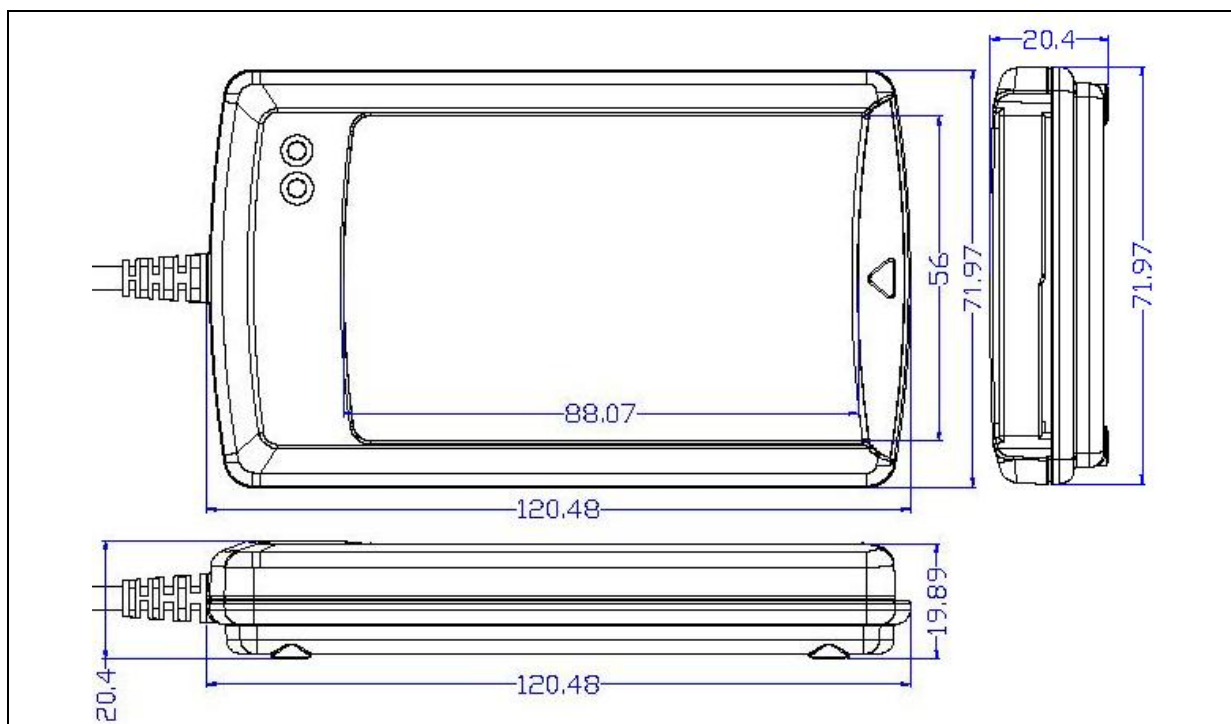


3.0. Typical Applications

- 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

Standard ISO 14443 A and B
Protocol..... MIFARE Classic protocols, MIFARE DESFire protocols, MIFARE Mini protocols
Smart Card Read/Write Speed..... 106 Kbps

Physical Specifications

Dimensions 120.5 mm (L) × 72.0 mm (W) × 20.4 mm (H)
Color Black
Weight..... 150 g

Operating Conditions

Temperature..... 0 °C – 50 °C
Humidity 10% - 90%

Certification/Compliance

CE, FCC, RoHS

Device Driver Operating System Support

Windows® 98, Windows® ME, Windows® NT (Serial), Windows® 2000, Windows® XP, Windows Vista®, Windows® 7, Windows® Server 2003, Windows® Server 2003 R2, Windows® Server 2008, Windows® Server 2008 R2
Linux®



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