

circle CIR315C Contactless Smart Card Reader User Manual

Home » circle » circle CIR315C Contactless Smart Card Reader User Manual

circle CIR315C Contactless Smart Card Reader



Contents

- 1 Driver installation
- **Procedure**
- 2 Operation Example
- 3 Parameter Sheet
- 4 Documents / Resources
 - 4.1 References
- **5 Related Posts**

Driver installation Procedure

* Driver signed by Microsoft and WHQL, user can install the driver with Window Update. In case that cannot install via Window Update, please process the below steps to Manual installation

Hardware requires:

- CIR315C
- PC with OS windows 7 or above

Software requires:

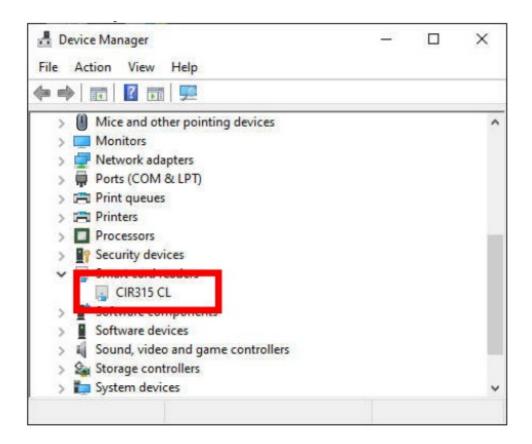
• CIR315 Driver Package

Steps:

1. Install driver by running Setup.exe



- 2. Follow the on-screen instructions to install the driver to the system.
- 3. Connect CIR315C to PC
- 4. If the device name under Device manager is "CIR315 CL", it shows the driver is correctly installed.



Operation Example

Hardware requires:

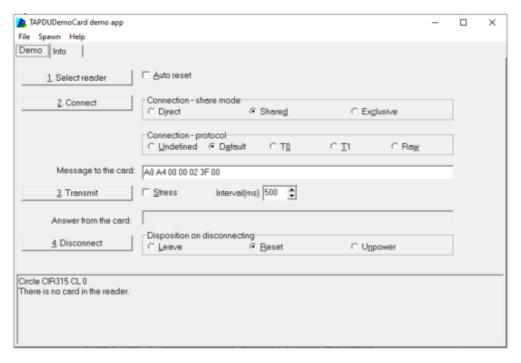
- CIR315C
- PC with OS windows 7 or above
- · Mifare 1k Test Card

Software requires:

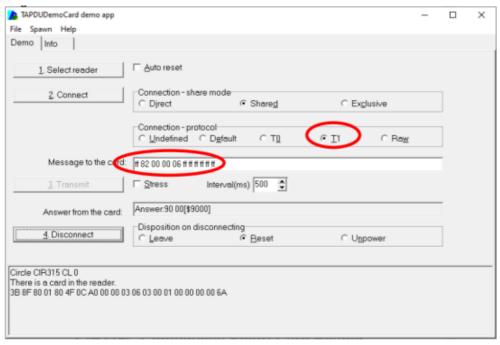
• Any PCSC Application (e.g. APDU.exe)

Steps:

- 1. Plug in the reader into the PC
- 2. Open "APDU.exe"

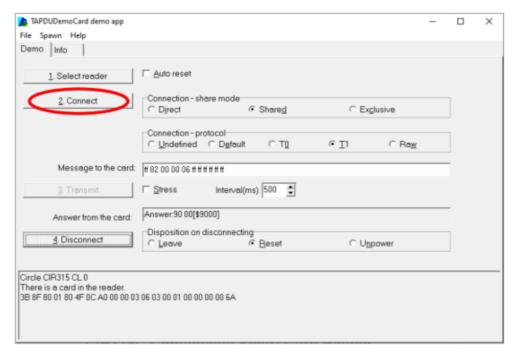


3. Tag Test card on CIR315C

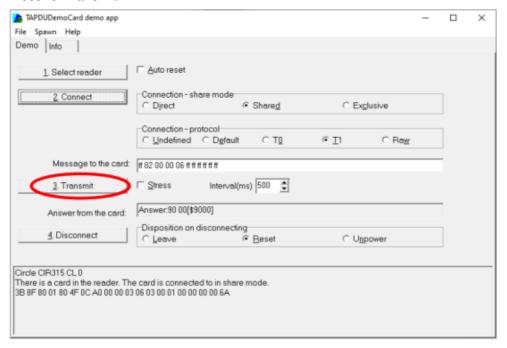


Select "T1", Message = "ff 82 00 00 06 ff ff ff ff ff ff"

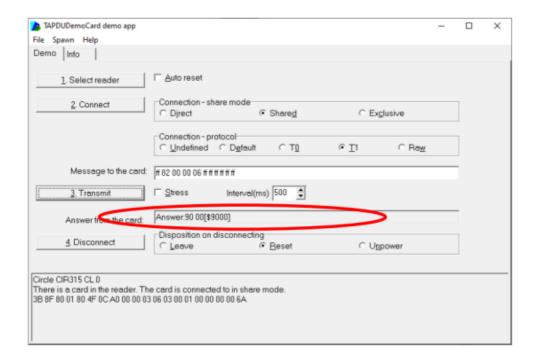
4. Press "2. Connect"



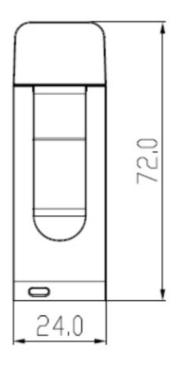
5. Press "3. Transmit"

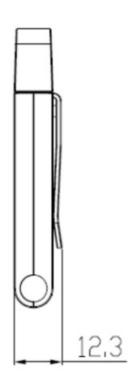


6. Result will be shown on the "Answer from the card:"



Parameter Sheet





Device AB Circle's CIR315C Contactless Smart Card Interface Standard ISO/IEC 14443 Type A & B, ISO/IEC 18092, ISO/IEC 15693

Protocol	T=CL (translated to T=1 for PC/SC compliance)	
Operating Frequency	13.56 Mhz	
Supported Card Types	ISO/IEC14443-4 A & 4B Cards, ISO/IEC15693-3 Cards, MIFAR E series: Classic/ PLUS/ Ultralight/ Ultralight C/ DESFire/ DESF ire EV1/ DESFire EV2, etc FeliCa (Standard/ Lite/ Plug), Calypso, J-LIS Cards, NFC Forum Tag type 1/2/3/4/5	
Speed	106/ 212/ 424/ 848kbps (Default: 106kps)	
Reading Distance	Up to 50 mm (depending on tag type)	
Extended APDU	Support	
Physical Characteristics		
Dimensions	24.0 x 72.0 x 10.0 mm (no clip)	
Weight	13.0g (± 5 g)	
Casing	White ABS	
Host Interface		
Power Supply	USB Bus-powered	
Current Consumption		
USB Standard	USB 2.0 Full Speed (12 Mbps)	
USB Connector Type	Default: Type A, Optional: Type C	
Human Interface		

LED	1 LED: Blue (Operation Status)	
	· === · Ziao (opoi allon olaldo)	
Software and Driver		
Firmware Upgradeable	Support, via USB	
Driver	CCID	
Application Programming Interface (API)	PC/SC	
Operating Conditions		
Operating Temperature	-10 °C – 55 °C	
Operating Humidity	Max. 95% (non-condensing)	
Storage Temperature	-20 °C – 70 °C	
Meantime Between Failure (MTBF)	600,000 hours	
Compliance/ Certifications		
Standards/ Systems	ISO/IEC14443, ISO/IEC18092, ISO/IEC15693, ISO/IEC7816 (S AM slot), USB 2.0 Full Speed, CCID, Microsoft® WHQL	
Regulatory/ Environmental	EN62368, CE, FCC, VCCI, MIC, RoHS3, REACH	
Operational Environment		
Supported Operating Systems	Windows® 7 and above, Linux®, Mac OS® 10.12 and above, Android™ 6.0 and above	
Ordering Information		

Produce Code	CIR315C-01: USB Type A Connector, CIR315C-02: USB Type C Connector (Optional)

Warning:

• Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

NOTE: 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.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

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

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. The End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

info@abcircle.com www.abcircle.com



Documents / Resources



circle CIR315C Contactless Smart Card Reader [pdf] User Manual

CIR315C-01, CIR315C01, 2AUVM-CIR315C-01, 2AUVMCIR315C01, CIR315C-02, CIR315C02, 2AUVM-CIR315C-02, 2AUVMCIR315C02, CIR315C Contactless Smart Card Reader, CIR315C, Contactless Smart Card Reader

References

• 2 AB Circle Limited - Finest IoT and smart card readers

Manuals+,