

CIR415A Bluetooth® Contactless Smart Card Reader

User Manual

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:

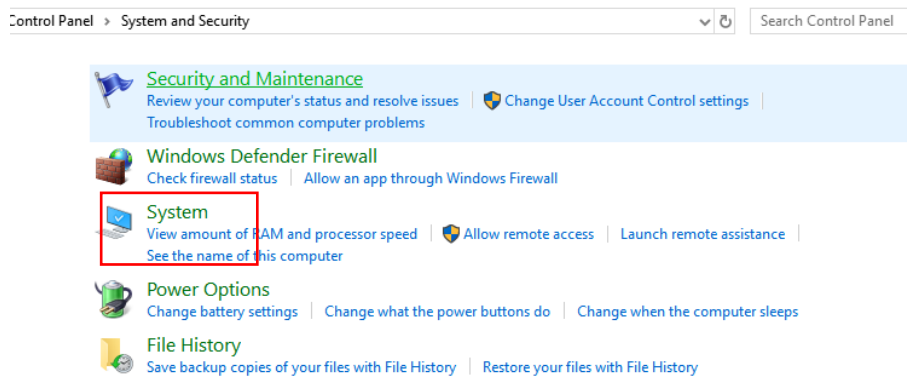
- ❖ CIR415A
- ❖ PC with OS windows 7 or above

Software requires:

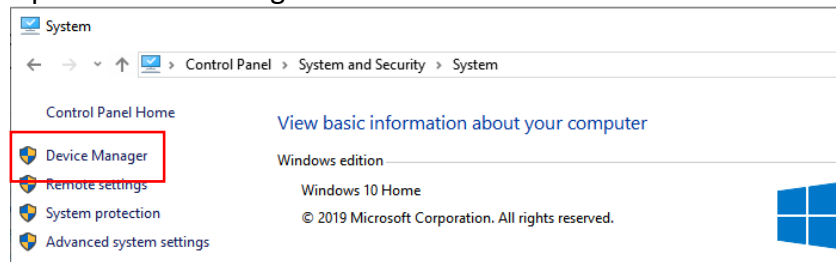
- ❖ CIR415 Driver Package

Steps:

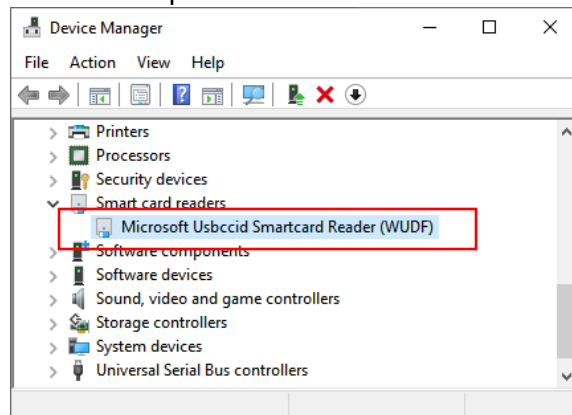
1. Connect CIR415A to PC
2. On PC, open “Control Panel > System”



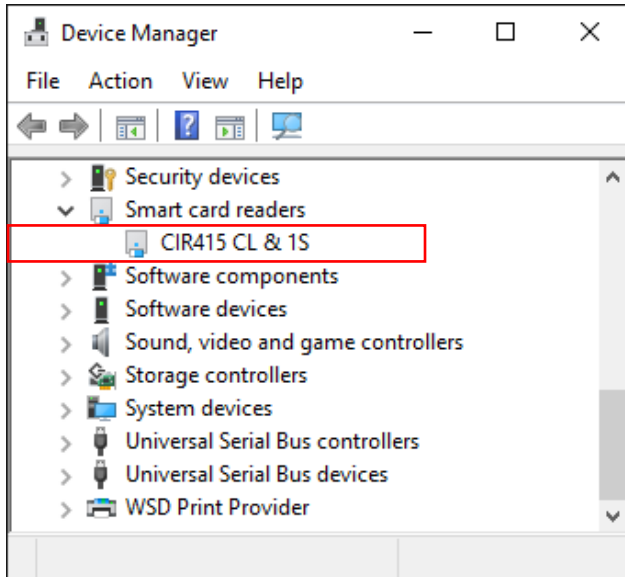
3. Open “Device Manager”



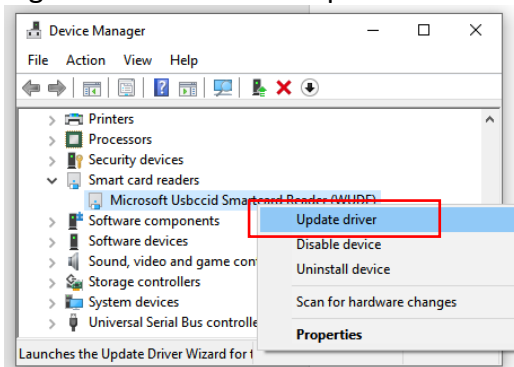
4. Select and open “Smart card readers”



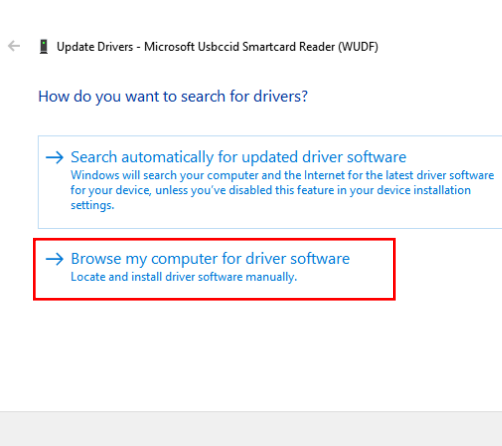
if it is shown “Microsoft Usbccid ... (WUDF)”, please continue with step 5)



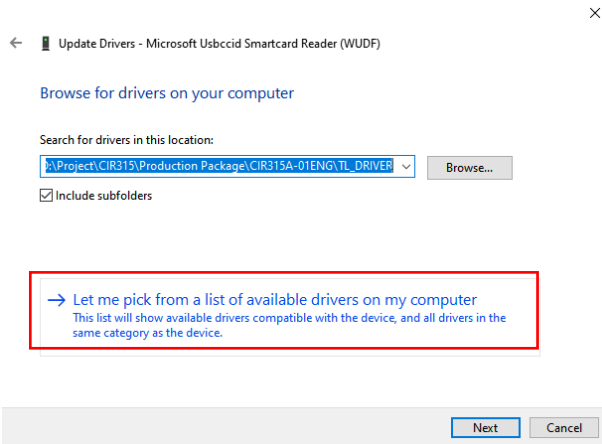
if it is shown “CIR415 CL & 1S” mean driver install completed
 5. Right click then select “Update driver”



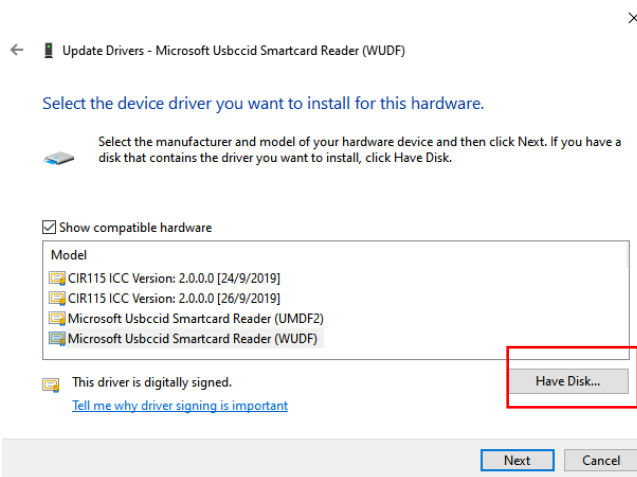
6. Select “Browse my computer for driver software...”



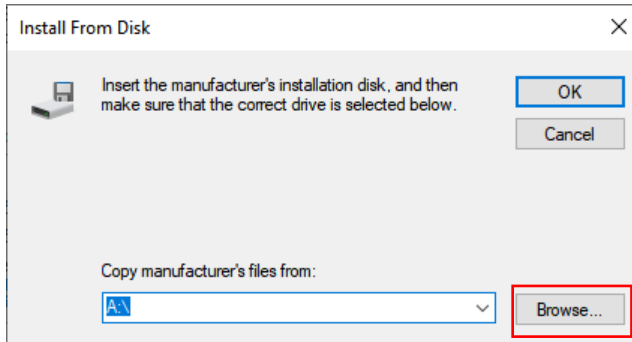
7. 選擇 “Let me pick from a list ...”



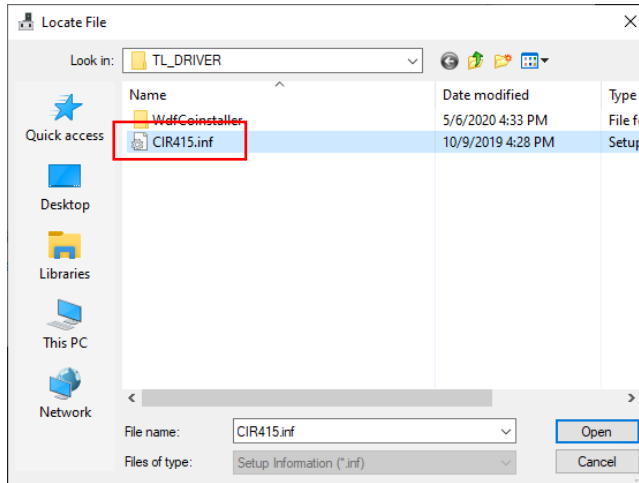
8. Select "Have Disk..."



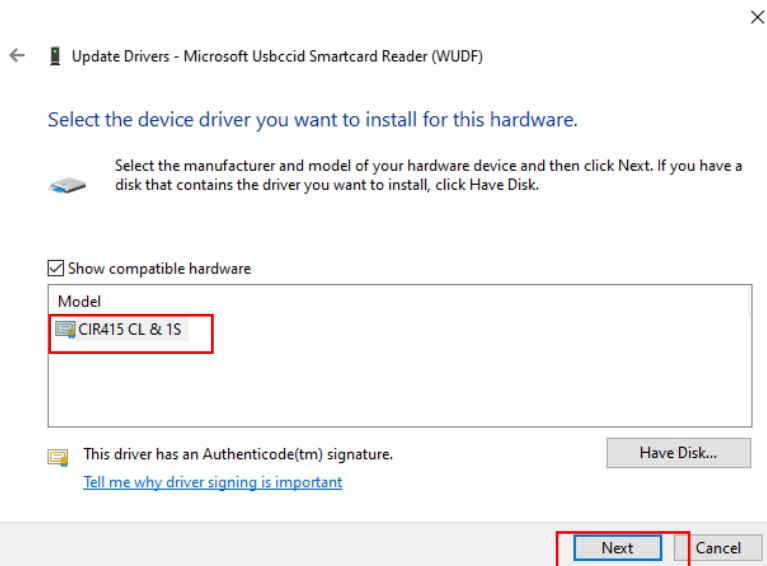
9. Select "Browse..."



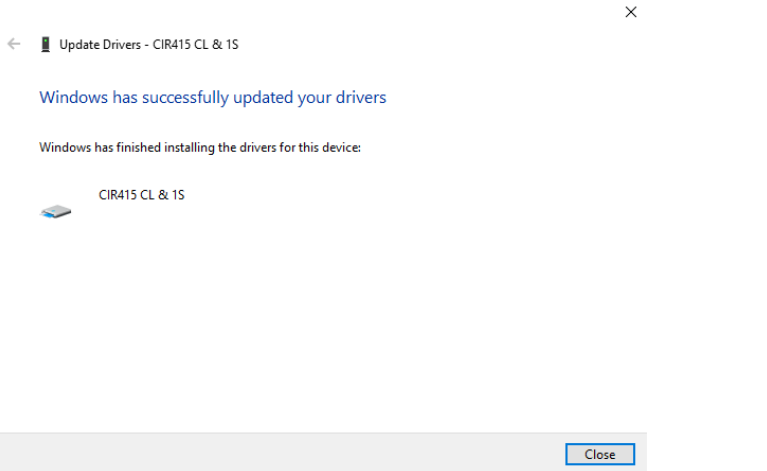
Select "CIR415.inf", then press "Open" and "OK"



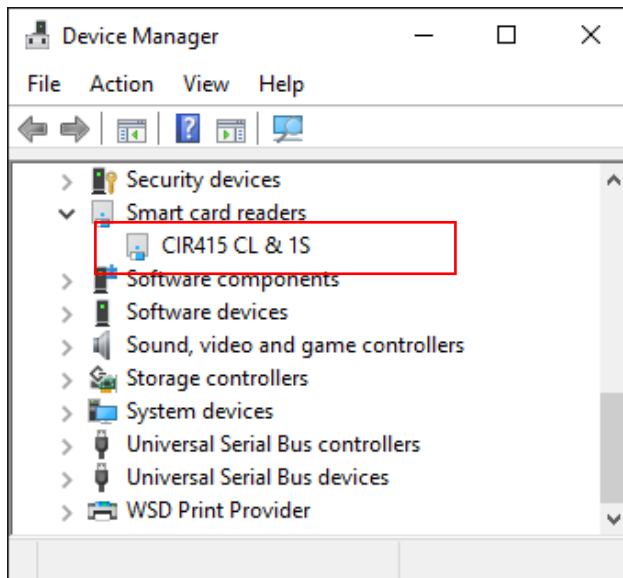
10. Select "CIR415 CL & 1S" then "Next"



11. Waiting until below screen shown, Press "Close" to complete



12. Double click to ensure the device changed to "CIR415 CL & 1S"



13. Done

Operation Example

Hardware requires:

- ❖ CIR415A
- ❖ PC with OS windows 7 or above
- ❖ Mifare 1k Test Card

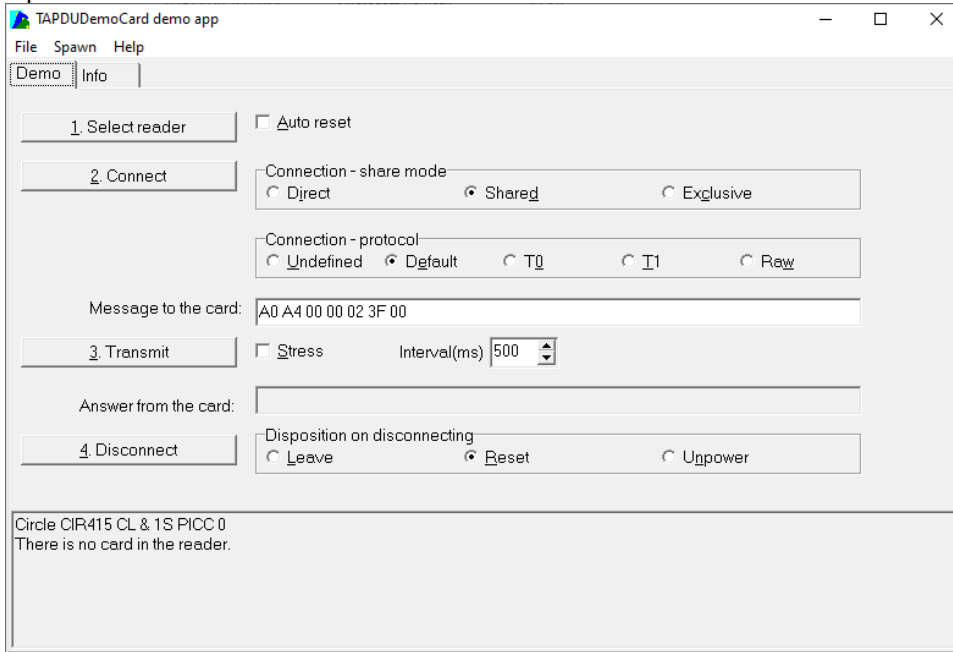
Software requires:

- ❖ Any PCSC Application (e.g. APDU.exe)

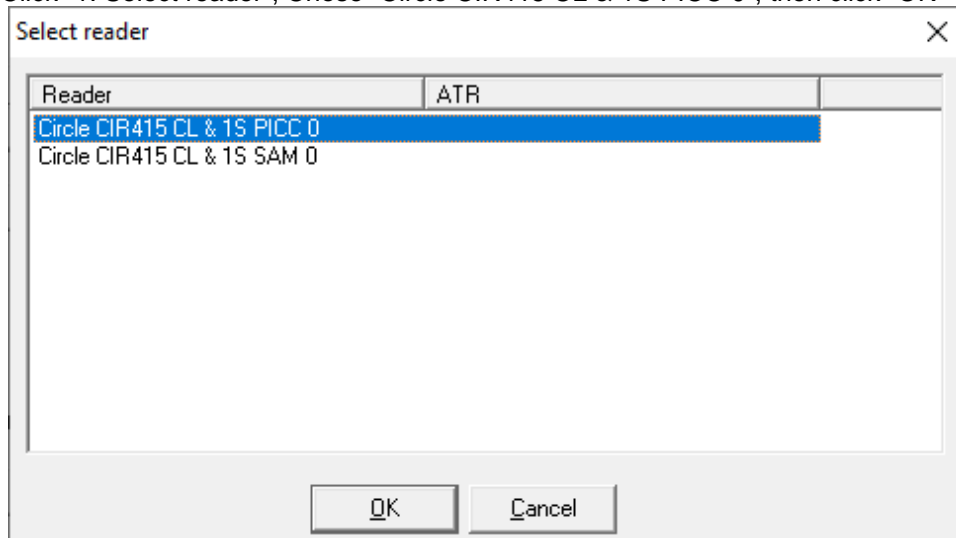
Steps:

1. Plug in the reader into the PC

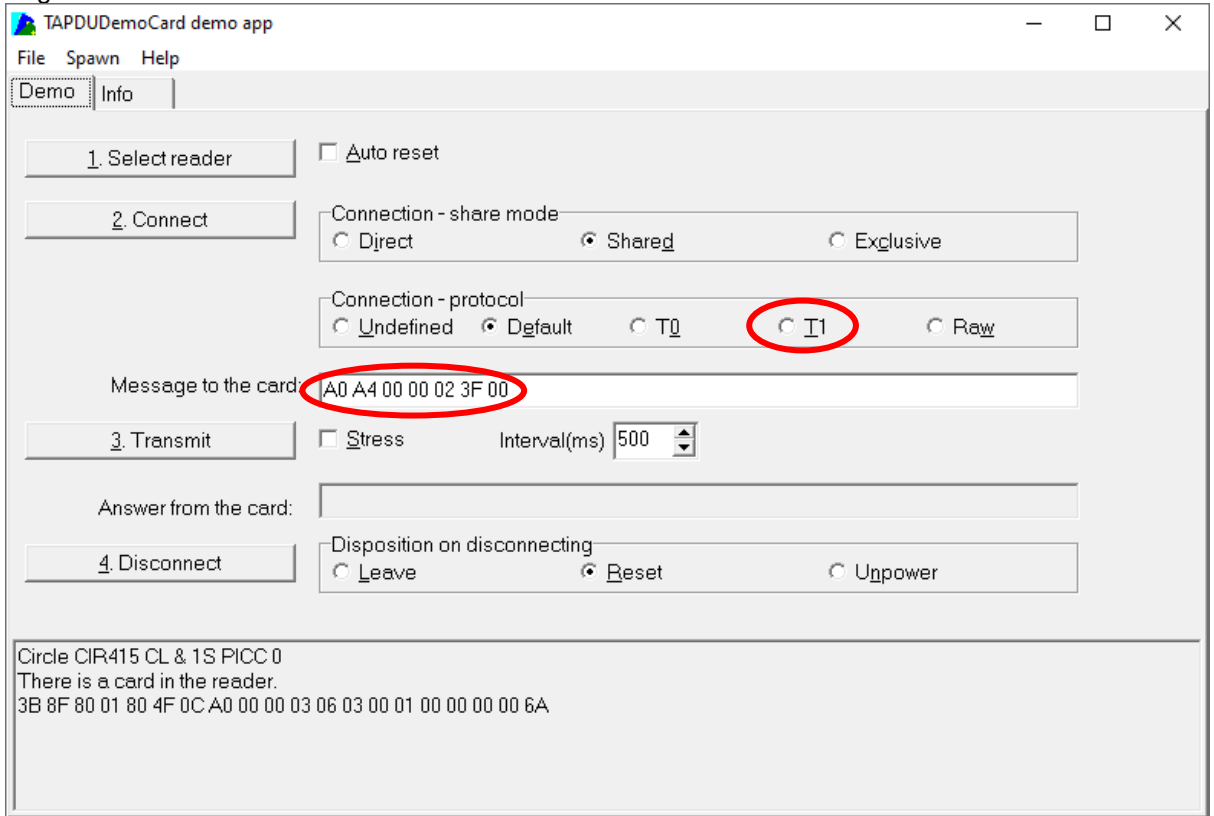
2. Open “APDU.exe”



3. Click “1. Select reader”, Chose “Circle CIR415 CL & 1S PICC 0”, then click “OK”

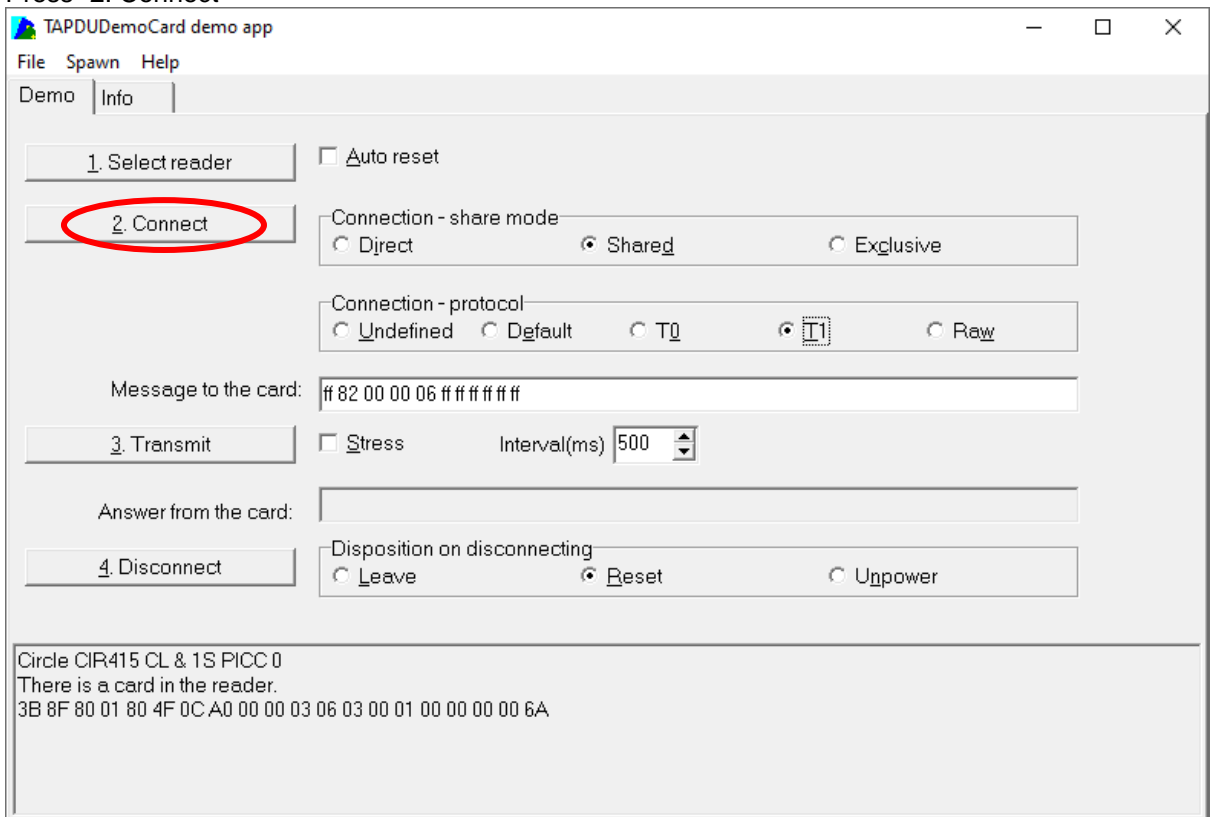


4. Tag ISO14443 Test card on CIR415A

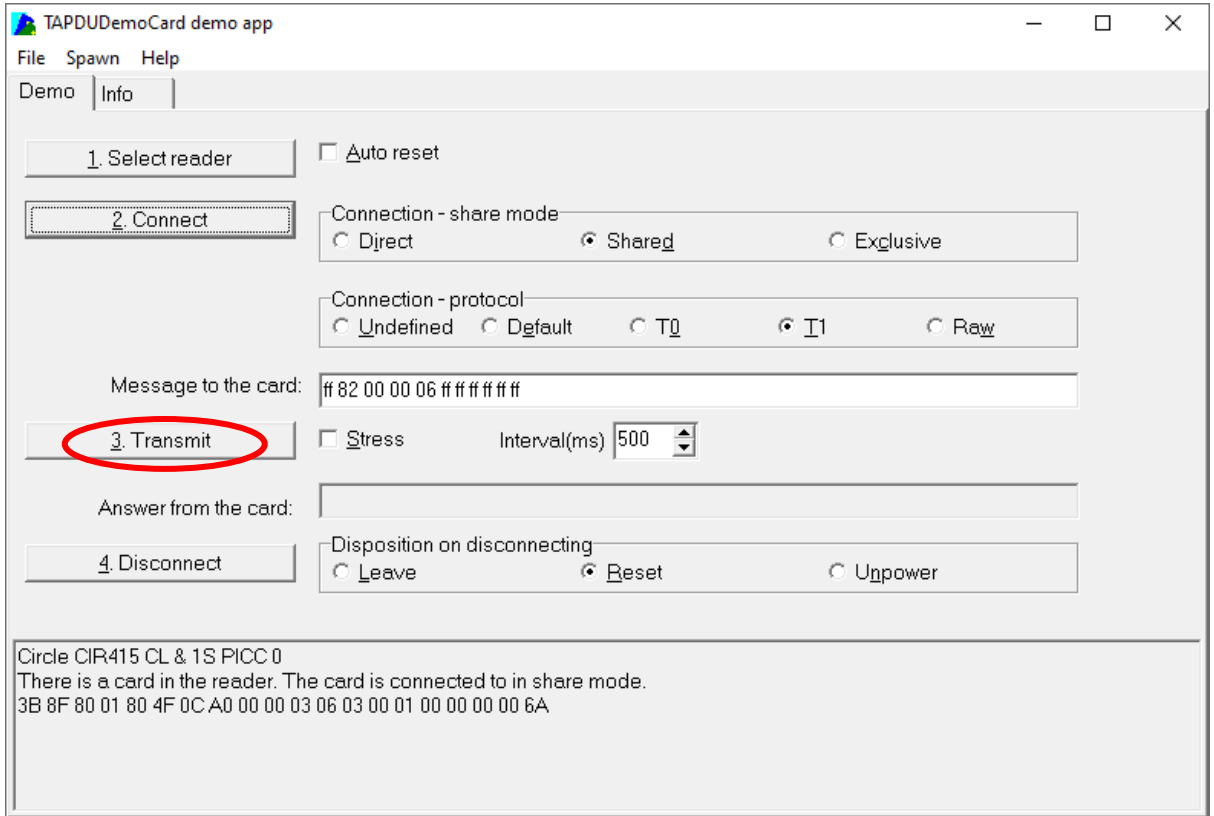


Select "T1", Message = "90 0a 00 00 01 00 00"

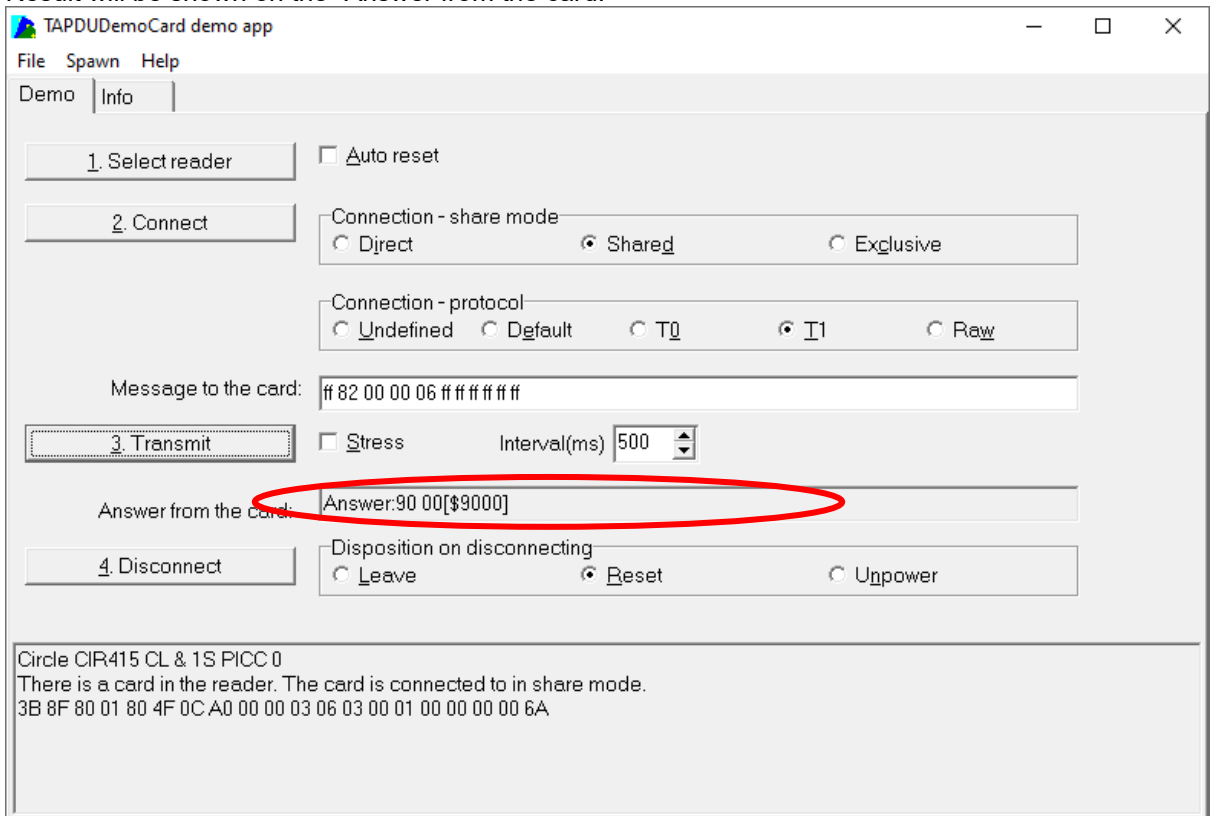
5. Press "2. Connect"



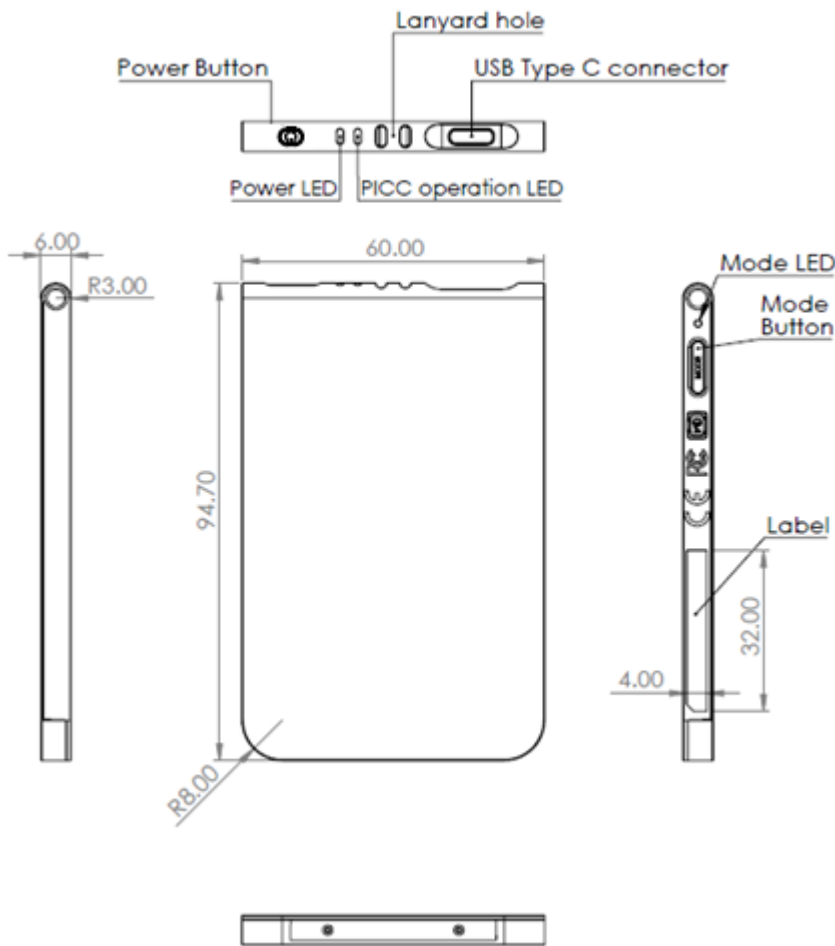
6. Press “3. Transmit”



7. Result will be shown on the “Answer from the card:”



Parameter Sheet



Physical Characteristics

Dimensions.....95.0 mm (L) x 61.0 mm (W) x 6.0 mm (H)
 CasingWhite PC

Universal Serial Bus Interface

Specification.....USB 2.0 Type C
 TypeFour lines: +5V, GND, D+ and D-
 Speed.....USB 2.0 Full Speed Device, 12 Mbps
 Supply VoltageRegulated 5V DC (Range from 4.75V to 5.25V)
 Supply Current<500mA
 Cable Length.....1m

Contactless Interface

Standard.....ISO14443, ISO18092, FeliCa®, ISO15693
 Protocol.....T=CL for ISO14443-4-compliant cards, T=CL
 Emulation for MIFARE Classic, ISO 18092, FeliCa and
 NFC tags

Carrier Frequency13.56MHz
Operating Baud Rate106kbps, 212kbps, 424kbps, 848kbps (Default: 424kbps)
Antenna Size53.0 mm x 32.0 mm

SAM Smart Card Interface

StandardISO 7816 3/4 Class A
Protocol SupportT=0 and T=1
Supply CurrentMax. 50mA
Smart Card Voltage5V
Operating Baud Rat9600 – 125kbps
Clock Frequency4.0 MHz
Card Connector TypeContact

Human Interface

LED3 LED:
1 Red & Green Bi-colour (Power & Charging status)
1 Blue & Green Bi-colour (Bluetooth & USB mode)
1 Blue (PICC operation)
BuzzerOptional

Operating Conditions

Temperature0 – 60 °C (when battery is not charging)
0 – 45 °C (when battery is charging)
Humidity<85%

Compliances/Certifications

Systems/ StandardsUSB 2.0 Full Speed, CCID, Microsoft® WHQL, Bluetooth 5.0
Regulatory/ EnvironmentalEN 62368/IEC 62368, CE, FCC, VCCI, RoHS, REACH, MIC, TELEC

Operational Environment

Compatible Operating SystemWindows® 7, 8, 8.1, 10, Linux®, Mac OS® 10.11 and above, Android™ 7.0 and above, IOS 8.0 and above

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