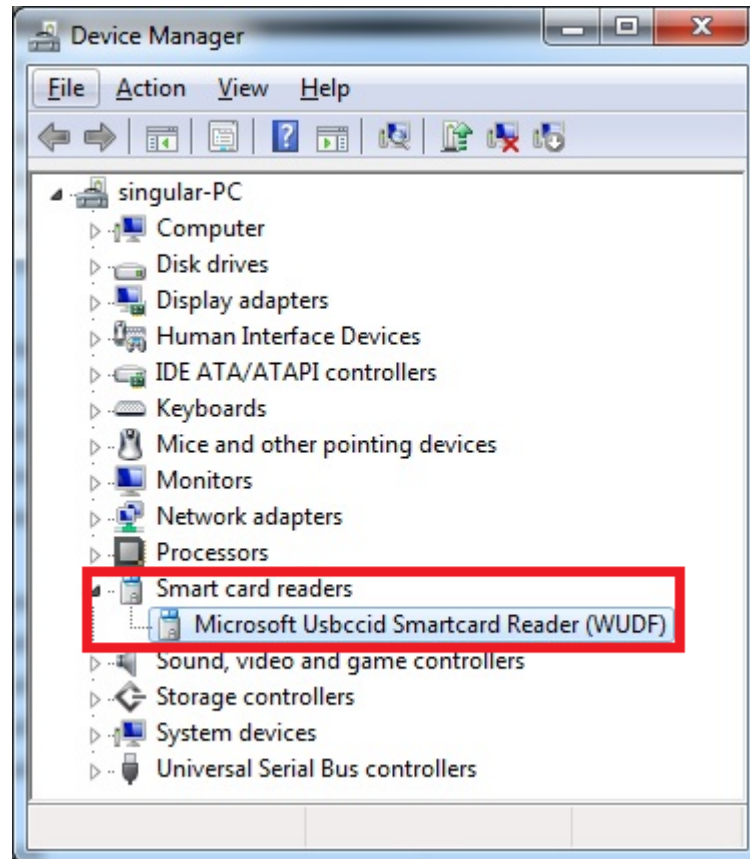# SCR11 User Manual

1. Reader Opening:

   Pull from its two sides to open it.
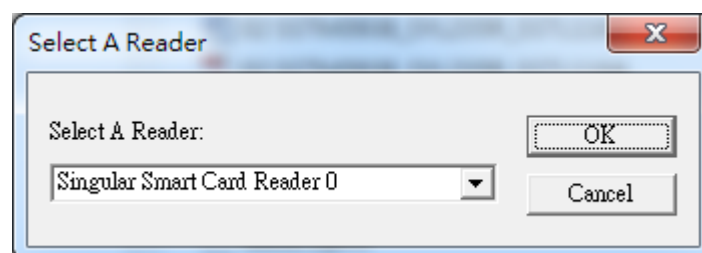

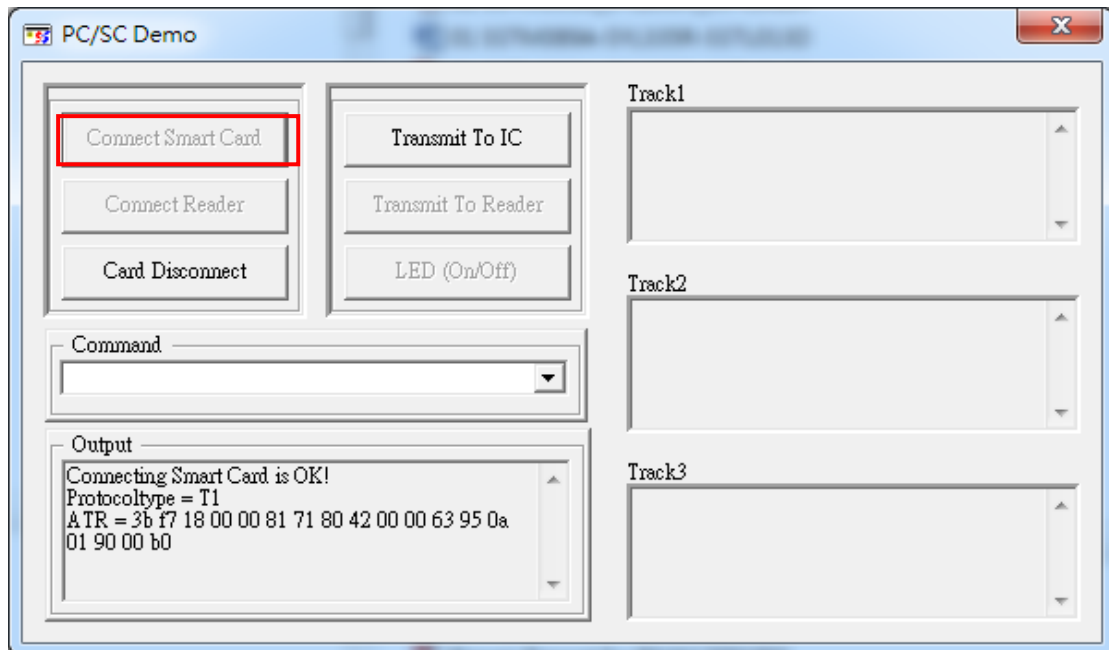   Plug it to a computer to install driver and insert a smart card when need.

2. Driver Installation: Plug the reader to a Windows computer and the system's hardware wizard will search a build-in "Microsoft USBCCID Smartcard Reader (WUDF)" driver to install automatically. If it fails, please install the device driver usbccid.inf and usbccid.sys we provide in product CD-ROM.
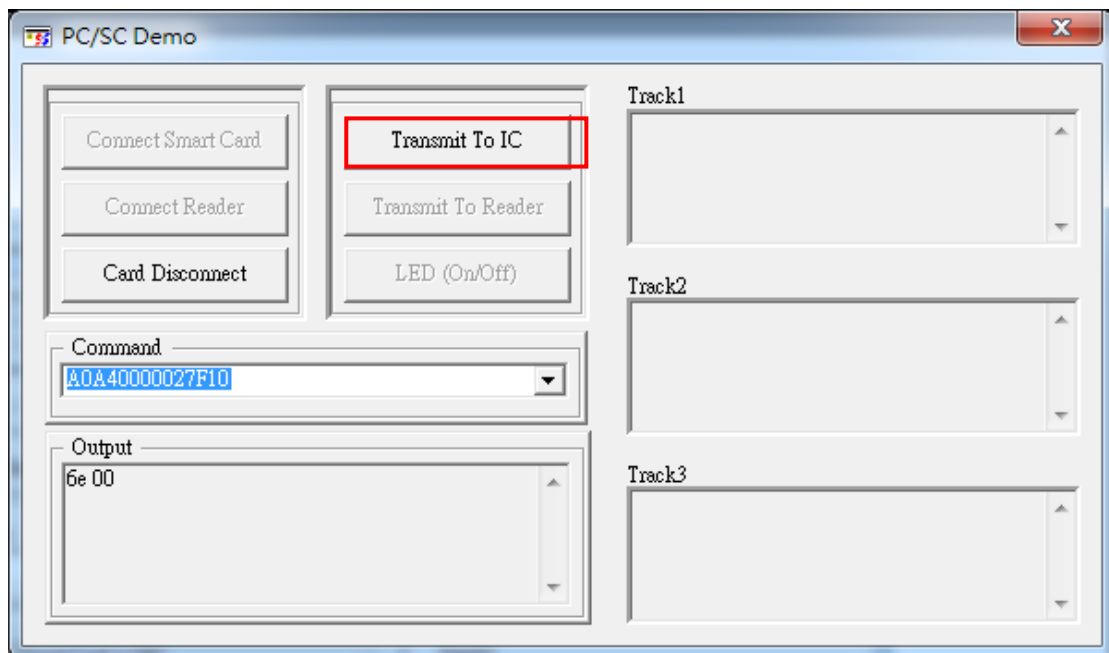

3. Test Program: Execute "PCSCDemo.exe". It will pop up a "Select A Reader" dialog box to show all the smart card readers installed on your system. Please select "Singular Smart Card Reader 0"(or 1, 2.. if you install more than 2 readers).

4. Smart Card Communication: Insert a smart card and then press button [Connect Smart Card] to power on the card. If it is successful, it will show Protocol Type and ATR value as the following picture.

5. Smart Card Communication: After [Connect Smart Card] successfully, you can send APDU command to the card. E.g. to send a GSM SIM Card's Select MF "A0A40000027F10". Input an APDU command in Command control first and then press button [Transmit to IC]. The smart card connected will response in Output control.

6. Web ATM and PC/SC compliant reader: Many banks have Web ATM service now. It needs a smart card reader with PC/SC compliance like SCR11. Browser IE, Chrome, Firfox, Opera, Safari with proper plug-in components can support this feature on Windows, Mac and Linux system. The following is an example on IE9.

7. For application programmers, we provide demo program's VC++ source code as a reference. You can find it under path \Singular Product CD-ROM:\01 English\02 Card Readers\03 IC RF Card Reader\SCR11 USB Mini Smart Card reader\Driver & Test Program\PCSC Demo Program\PCSCSample_VC++ Source. For PC/SC smart card API usage, you can check Microsoft MSDN website http://msdn.microsoft.com/en-us/library/ms953430.aspx#smart_card_topic4.