



ACR83 PINeasy Smart Card Reader Software Development Kit

ACR83 PINeasy is a USB reader featuring a keypad and display, supporting Secure PIN Entry (SPE). The PIN (Personal Identification Number) is entered on its keypad securely and then authenticated within the device. Since the PIN is entered into the secure ACR83 PINeasy rather than the vulnerable PC or workstation, the possibility that a Virus/Trojan or USB Sniffer gets hold of the PIN is eliminated.

Fitting on the palm of your hand, the ACR83 PINeasy is one of the smallest PIN-pad readers in the market. To authenticate yourself, all you have to do is to connect the reader to USB port of the PC, insert the smart card, follow the command on the LCD and enter your PIN.

The ACR83 PINeasy Software Development Kit (ACR83 SDK) enables effective development of customized applications and systems by using smart cards, card readers, and PCs. It can serve as an ideal training and development tool for those who are interested in knowing smart card technologies. The SDK comes with sample codes written in different programming languages, namely, Delphi 7, Java, Visual Basic 6, Visual C++ 6, Visual C++ 2005 (x64), Visual C # 2005 and Visual Basic .Net 2005. These sample codes show the different capabilities of the ACR83 and showcase how to control the ACR83 Peripherals and how to communicate with any ISO-7816 cards.

ACR83 SDK Contents:

- ACR83 PINeasy Smart Card Reader**
 - Operate in online mode
 - USB Full Speed (12 Mbps)
 - 14-key Keypad
 - 2 rows x 16 characters dot matrix LCD, each character is 5x8 dots
 - Support all Full-sized Microprocessor Cards
 - T=0 or T=1 Protocols
 - ISO-7816 Class A, B and C (5V, 3V, 1.8V) Cards
 - Supports PPS (Protocol and Parameters Selection)
 - Support Secure PIN Entry (SPE)
 - Short Circuit Protection
 - CCID compatible
 - Certifications/ Compliances:
 - ISO-7816, PC/SC, EMV Level 1,
 - CE, FCC, WHQL and RoHS Compliant

- 5 Test Cards**
 - 5 ACOS3 24Kbyte Microprocessor-based cards

- CD-ROM**
 - **Software drivers**
 - Supports Win 2000, Win2003, Win XP, WinVista (x86 & x64)
 - **Tools & Utilities**
 - **ACR83 Tool** - is an application utility tool that enables you to perform PC/SC commands such as controlling the device and its peripherals.
 - **CardTool** - allows you to send commands to any ISO 7816 T=0 compliant smart card.
 - **QuickView** - checks for proper driver installation

- **Sample Codes**
 - Show the different capabilities of the ACR83 and showcase how to control the ACR83 Peripherals and how to communicate with contact cards.
 - Delphi 7, Java, Visual Basic 6, Visual C++ 6, Visual C++ 2005 (x64), Visual C # 2005 and Visual Basic .Net 2005.
- **Reference Manuals**
 - **ACR83 SDK User Manual** – This manual educates the user on how to install the SDK and gives a brief description of the components included in the SDK.
 - **ACR83 CCID Protocol** – contains the commands that can be used to create applications using the ACR83 PINEasy Reader.
 - **ACR83 SPE API** - contains information about CCID Secure PIN Entry Data Structure
 - **ACOS3 Reference Manual** – specifications for the ACOS3 MCU Card.
- **Technical Specifications**