

# SDK

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# CIVINTEC CNReader SDK Software Development Kit Worked With CN3XX And CN6XX Product Series For Second Development

## Technical Specification

Make	CIVINTEC	
Company	CIVINTEC Global Co., Limited	
Model code	CNReader SDK	
Reader Types	Card	
System Requirements	Operating System: Android,Linux and Windows. Support Win 98,Win ME, Win 2000, Win 2003, Win 2003 x64, Win XP, WinXP x64, Win Vista, Win Vista x64, Win2008, Win2008 x64, Win2008 R2 x64, Win7, Win7 x64, Win8	

## Additional info

CNReader SDK is software development kit worked with CN3XX and CN6XX product series for second development. It includes API, Host Demo, user manual, USB driver and program example. It's developed by C++ builder developing tool on Windows Operating system and GCC developing tool on Linux OS, compatible to VC, VB/VB.NET, C++, C#.NET, DELPHI etc. It also offers special Host Demo and API for MIFARE Plus® and MIFARE® DESFire® EV1, NFC and SAM.

### Highlights:

- ┌ SDK is available with some special benefits for customer's development
- ┌ Stronger and powerful informative API to save your time and cost for development
- ┌ Examples for good reference and understanding, using developing tools like Delphi, C++ Builder, C#, .NET, VC, VB/VB.NET etc.
- ┌ APDU channel packaged into API to operate all commands of smart card
- ┌ Comprehensive platform to provide flexibility by customer side:
  - ┌ Operating System: Android, Linux and Windows. Support Win 98, Win ME, Win 2000, Win 2003, Win 2003 x64, Win XP, WinXP x64, Win Vista, Win Vista x64, Win2008, Win2008 x64, Win2008 R2 x64, Win7, Win7 x64, Win8
- ┌ Host Demo, a software testing tool to ease and simply development

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## CN8 SDK

CN8-SDK is software development kit for embedded GUI software development by C++ / C language, and use Qtopia 4.7.0 framework and Qt-Creator development tool. It includes Development Tools, Cross-compiler, Dynamic Library, API, Demo Software, User Manual, Peripheral Operation Examples and System Upgrade Kit.

CN8-SDK also offer Host Demo and API for fingerprint and comprehensive cards as Mifare plus and DESFire EV1 etc. and NFC technology. It supports quick system upgrading by SD card and can be easily debug via UART port to greatly ease user's application development.

### Features

SDK is available with some special benefits for customer's development

- ✚ Demo application program source code to ease your development and save your time & cost
- ✚ Robust and powerful informative API and DLL to support NFC and multi RFID card as Mifare, Mifare Plus, DESFire EV1, ISO14443A/B compatible cards and Sony Felica
- ✚ Robust fingerprint API to realize fingerprint module operations as fingerprint registration, scanning, fingerprint data & image collection & management, encryption and fake fingerprint data verification, even module reset, configuration information obtaining
- ✚ Examples for good reference and understanding
- ✚ Abundant development tool and cross-compiling chain
- ✚ Large capacity SD card ease system upgrade
- ✚ Host Demo, a software testing tool to ease development
- ✚ One time purchase and free charge upgrade forever

### Details for CN8 SDK

- **Documents**
  - Fingerprint module API documentation
  - RFID card reader module API documentation
  - GPRS module specification and command documentation
  - Demo procedure operation documentation
  - Developer manual
- **Library**
  - RFID module dynamic library + header files
  - Fingerprint dynamic library +header files
- **Source Code**
  - Demo program source code
  - Executable Compiled Demo program
  - Setting tools of WIFI module
  - executable Compiled WIFI program
  - Peripherals operation source code
- **Tools**
  - Offer SD card tool to rewrite (burn) program system
  - Cross-compiling chain
  - Qtopia development kit
- **Upgrade & reload**
  - System upgrading folder and guide
  - Demo Software
  - Demo upgrade operation guide

## CVReader SDK

CVReader SDK is software development kit worked with CV3XXX, CV5XXX and CV6XXX product series for second development. It includes API, Host Demo, user manual, USB driver and program example. It's developed by C++builder developing tool on Windows Operating system and GCC developing tool on Linux OS, compatible to VC,VB/VB.NET,JAVA, C++,C#.NET, DELPHI etc.

### Features

- SDK is available with some special benefits for customer's development
- Stronger and powerful informative API to save your time and cost for development (See "CVReader API reference directory" in Appendix for details)
- Examples for good reference and understanding, using developing tools like Delphi, C++ Builder, C#.NET, VC,VB/VB.NET etc.
- Comprehensive platform to provide flexibility by customer side:  
Operating System: Linux and Windows. Support Win 98,Win ME, Win 2000, Win 2003, Win 2003 x64, Win XP, Win XP x64, Win Vista, Win Vista x64, Win 2008, Win 2008 x64, Win 2008 R2 x64, Win 7, Win 7 x64, Win8
- Host Demo, a software testing tool to ease and simply development
- One SDK for all our readers (CV3XXX, CV5XXX, CV6XXX) to avoid development cost for product upgrade

### Selective SDK

CVReader SDK	ISO14443A/B, Mifare, ISO15693
CVReader Finger SDK	ISO14443A/B, Mifare, ISO15693, Fingerprint
CVReader_DESFire_Finger SDK	ISO14443A/B, Mifare, ISO15693, Mifare Plus, Desfire EV1 and Fingerprint

## IOAccess SDK

IOAccess SDK is software development kit worked with CiVinTec Access Control & TA terminal for second development. It includes API, Host Demo, user manual and program example. It's developed by C++builder developing tool on Windows Operating system and GCC developing tool on Linux OS, compatible to VC,VB/VB.NET,JAVA,C++,C#.NET, DELPHI etc.

### Features

- SDK is available with some special benefits for customer's development
- Stronger and powerful informative API to save your time and cost for development (See "IOAccess SDK API reference directory" in Appendix for details)
- Examples for good reference and understanding.
- Comprehensive platform to provide flexibility by customer side:  
Operating System: Linux and Windows. Support Win 98,Win ME, Win 2000, Win 2003, Win 2003 x64, Win XP, Win XP x64, Win Vista, Win Vista x64, Win 2008, Win 2008 x64, Win 2008 R2 x64, Win 7, Win 7 x64
- Host Demo, a software testing tool to ease and simply development
- One SDK for all our Access Control terminal to avoid development cost for product upgrade

### Compatible models

13.56MHz Access Control & TA	CV9600(T)(S)-X-XX, CV9601T(S)-X-XF, CV9600(S)-X-2B, CV8600(S)-X
125KHz Access Control & TA	EL500(T)-X-XX, EL501T -X-XF, EL500-X-2B, EL600-X

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