



SMART CARD READER CB1000sc with FINGERPRINT AUTHENTICATION

DESCRIPTION

IZZIX CB1000sc is a combination device of fingerprint authentication & smart card technology to provide increased level of security and convenience.

Currently, the smart card technology is being widely spread over the world, but is not yet being used commonly. To make this technology more widespread available to the public, Digent has developed IZZIX CB1000sc. The integration of smart card with fingerprint authentication solution makes the system safest where the cardholder authentication is inevitable.

IZZIX CB1000sc has a smart card slot and a fingerprint image sensor on the side to elevate the security level of smart cards. Now the smart card holders can use their cards without worrying about their personal information being stolen.



IZZIXFINGERENGINE(Fingerprint Recognition Algorithm) follows the commonly accepted fingerprint identification scheme, which uses a set of specific fingerprint feature points(minutiae). However, it contains many powerful algorithmic solutions, which enhance the system performance and reliability. Some of them are listed below;

- Image Quality Check Algorithm
- Efficient Image Enhancement Algorithm
- Fully Tolerant to Fingerprint Distortion and Rotation Matching Algorithm
- Fingerprint Enroll Mode with Feature Collection
- Database Classification and Pre-Sorting by Global Feature Vector
- Suitable Algorithm to 1:1 (and 1:N Mode)

More than Perfect!

SPECIAL FEATURES

- Fingerprint sensor & Smart card reader all-in-one type
- Easy registration & authentication
- Fast response time and low error rate
- Upgrade security, productivity, and convenience

APPLICATION

Corporate Sector

- PC security within the corporation
- Corporation Security Integration
- Access restriction on confidential information
- B2B user authentication(ex – online purchasing)

Medical Sector

- Protect doctors profile & information
- Access restriction to medical history of patients
- Access restriction to individual medical system
- Insurance cardholder authentication

Identification

Financial Sector

- Integrated Security in Financial Institution
- PC security for employees
- Electronic payment/transfer
- Internal authentication for specific transaction
- Online banking authentication

Public Sector

- Staff management & information security within the department
- Applicable to every department such as National Defense, IT, Government Administration
- Authentication system for E-government

IZZIXFINGERENGINE SPECIFICATION

FAR(False Acceptance Rate)	≤ 0.0001%
FRR(False Rejection Rate)	≤ 1%
Authentication Speed	Less than 1 sec
Template Size	480 Bytes
Fingerprint Rotation Range	0° ~ 360°
Matching Security Level	3 Levels
Supported OS	Microsoft Windows 98/ME/NT/2000/XP

This specification is subject to change without prior notice.

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DIGENT - Advanced Fingerprint Security Solution

Rev. 2.1

Website : www.digent.com
E-mail : support@digent.com

Refer to Manual for details and usage specification



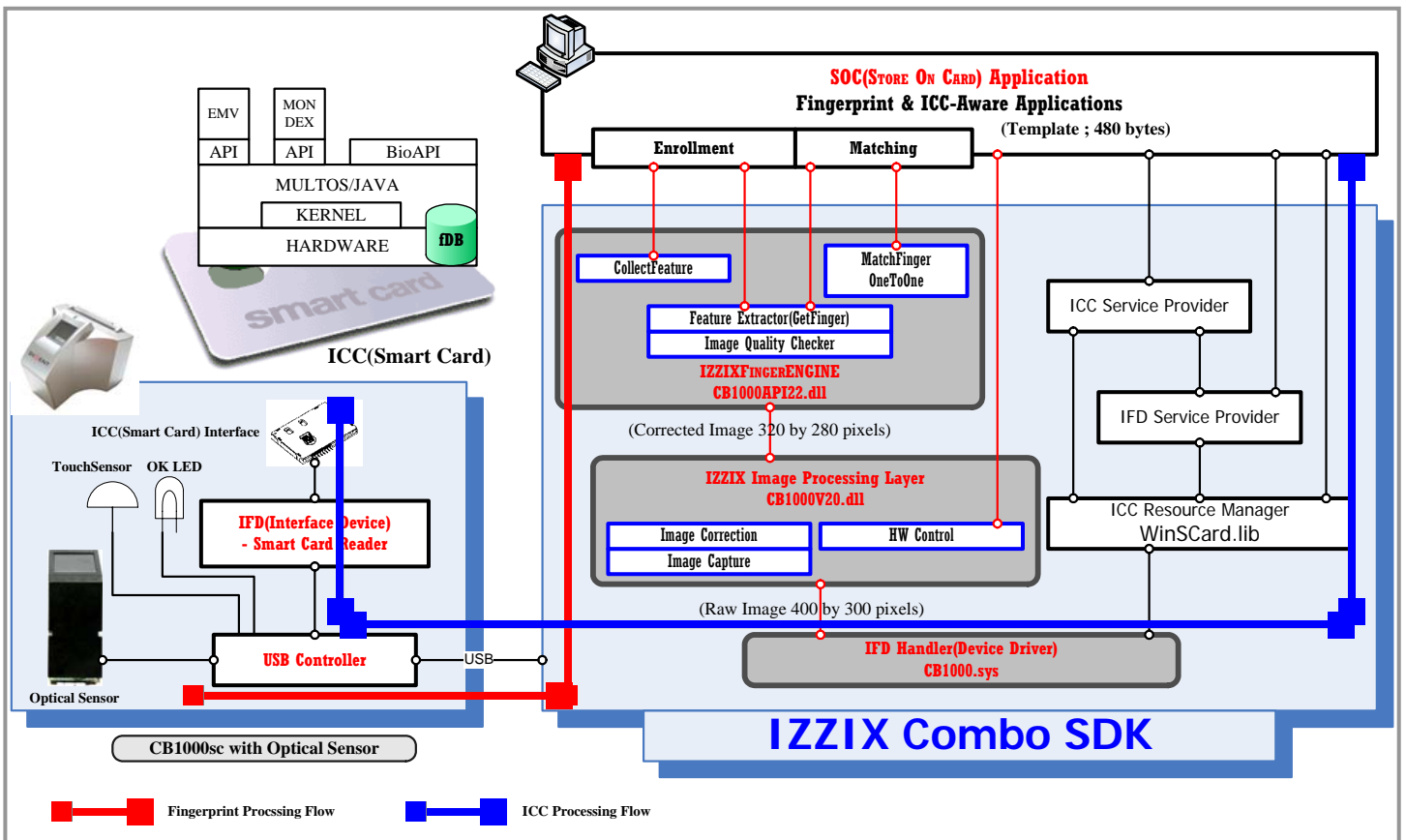
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● CB1000sc SPECIFICATION

Fingerprint Sensor (FS11)	Optical
Resolution	500dpi / 256gray
Window Size	18.8 × 16 mm
Fingerprint Image Size	320×280
Interface	USB 1.1 Full Speed
Component	Fingerprint Sensor, Card Slot and User Indicator
Power	USB Bus Power
Smart Card contacts	200,000 cycles min.
Operating Temperature	0°C~40°C
Dimension(W×H×D)	88 × 87 × 84 mm
Smart Card Reader Features	<ul style="list-style-type: none"> - Read and write all microprocessor cards(MCU) with T=0 & T=1 protocols - Read and write popular memory card types - Certificate of conformance : ISO 7816-1/2/3, PC/SC, FCC, CE, MIC - Supports high speed smart card interface with transfer data rates of up to 115kbps

● IZZIX CB1000sc SDK(Software Development Kit)

- ❑ Hardware Device Driver
- ❑ **IZZIXFINGERENGINE**(Fingerprint Recognition Algorithm, CB1000API22.dll)
- ❑ Sample Application Program with source code in VC
- ❑ Technical documents
- ❑ Smart Card Reader with Fingerprint Authentication : CB1000sc



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