

### DESCRIPTION

**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

- Internally developed fingerprint authentication algorithm with fast & accurate authentication rate
- Free yourself from remembering many different passwords
- Reduce administrative cost – No more periodic change of password
- More reliable way to secure confidential information

### APPLICATION

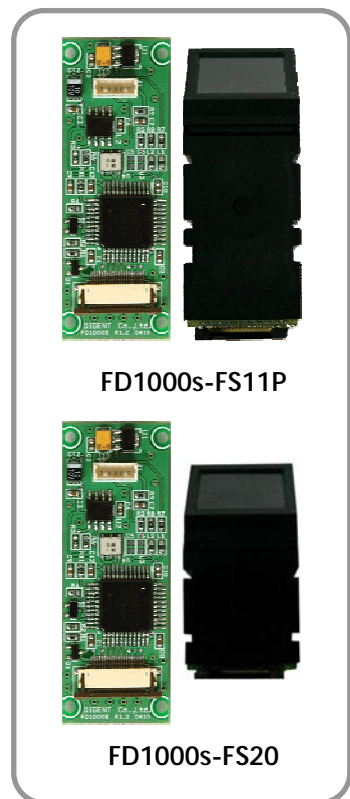
- PC Security – regulate PC access and data security
- Document Security – secure personal e-mails
- Regulate accessibility of electronic payment & transferring data on the network
- Internet login using fingerprint authentication

### IZZIXFINGERENGINE SPECIFICATION

FAR(False Acceptance Rate)	≤ 0.0001%
FRR(False Rejection Rate)	≤ 1%
Authentication Speed	≥ 0.2 sec
Template Size	480 Bytes
Fingerprint Rotation Range	0° ~ 360°
Matching Security Level	3 Levels
Supported OS	Microsoft Windows 98/ME/NT/2000/XP

### FD1000s SPECIFICATION

Fingerprint Sensor	Optical	
Resolution	500dpi / 256gray	
Window Size	18.8 × 16 mm	
Fingerprint Image Size	320×280	
Interface	USB 1.1 Full Speed (USB 2.0 Compatible)	
Operating Temperature	0℃~40℃	
Dimension(W×L×H)	Board(FD1000s-FCB)	20 × 56 mm
	Sensor FS11P	20.5 × 25 × 55 mm
	Sensor FS20	20.5 × 25 × 42 mm
FFC(Flat Flexible Cable) length	60mm or 160mm	
USB Cable	Type1	140mm
	Type2	1,800mm(1.8m)



[FD1000s-FCB]



[USB Cable Type1]



[FS11P] & [FS20]



[USB Cable Type2]



### IZZIX SDK (Software Development Kit)

- ❑ Hardware Device Driver
- ❑ IZZIXFINGERENGINE (Fingerprint Recognition Algorithm, FingerAPI22)
- ❑ Sample Application Program with source code
- ❑ Technical documents
- ❑ Fingerprint Scanner ; FD1000s-FS11P or FD1000s-FS20

