

# BioEntry™ Smart

## Fingerprint Smart Card Reader

- Biometric data stored on card - easy registration and no privacy concern
- Instant replacement of existing readers - no additional wiring
- Award winning fingerprint recognition engine (No.1 in FVC2004)
- Affordable price comparable to non-biometric smart card readers

BioEntry™ Smart is a new ground-breaking smart card reader that seamlessly integrates fingerprint and smart card into one device.

Fingerprint template is stored on a contactless smart card and transmitted to BioEntry™ Smart to be authenticated with a card holder's fingerprint.

Carrying a fingerprint template on a smart card eliminates the difficulty of fingerprint registration and management issues and enables BioEntry™ Smart to replace proximity or magstrip readers in existing access control systems without any additional wiring.

Optical	Capacitive	Swipe Thermal
		

### ■ Features

- World's most reliable fingerprint algorithm (No. 1 at FVC 2004)
- Template storage on standard Mifare contactless smart card
- Multiple choice of industry's leading fingerprint sensors
- Configurable operation modes  
(smart card and fingerprint, fingerprint identification, etc.)
- Flexible interface  
(RS232/RS422/RS485, Wiegand input & output, Data/Clock output)
- User configurable I/O  
(can be connected to switch, tamper alarm, or relay circuit)
- Tamper switch against vandalism
- Duress finger mode



# BioEntry™ Smart


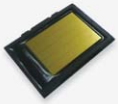
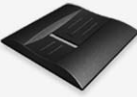
Fingerprint Smart Card Reader

## General Specifications

CPU	400 MHz DSP
Flash memory	4MB
EER	< 0.1%
Enrollment time	< 1 sec
Verification time	< 1 sec
Template size	256 ~ 384 bytes
Smart card	ISO14443A MIFARE
Template capacity*	9,000 at 4MB flash
Host communication	RS232/ RS422/ RS485
Aux. communication	RS232
Wiegand interface	1 input, 1 output
Data/Clock	output
External I/O	2 TTL input, 2 TTL output
Encryption	256 bit AES
Supply voltage	9 ~ 24 Vdc
Size	175 x 75 x 54 (L x W x H)

\* Optional function. In default mode, fingerprint templates are stored on smart card, not on the BioEntry Smart itself.

## Model Specifications

Ordering Model	BES-OP	BES-TC	BES-FC
Sensor type	Optical	Capacitive	Swipe type Thermal
Resolution	500 dpi	508 dpi	500 dpi
Sensing area (mm)	16.0 x 19.0	12.8 x 18.0	14.2 x 0.4
Image size (Pixel)	280 x 320	256 x 360	280 x 8
			

## BioEntry™ Smart Starter Kit

The starter kit of BioEntry™ Smart allows a user to easily evaluate the functionality of BioEntry™ Smart and helps integration and developments.

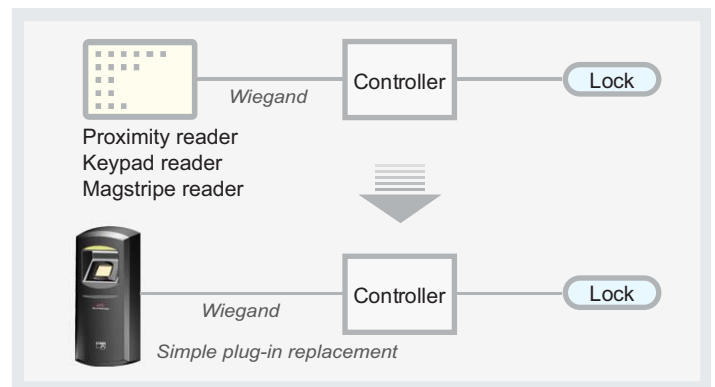
Contents:

- BioEntry™ Smart 1 unit
- Plastic stand 1 unit
- Starter kit interface board 1 unit
- USB fingerprint scanner (OP/TC only)
- USB smart card reader/writer (OP/TC only)
- Contactless smart card 5 ea
- Power adaptor and cables
- Software CD (BioEntry™ Admin)
- Technical documents

## Operation Modes

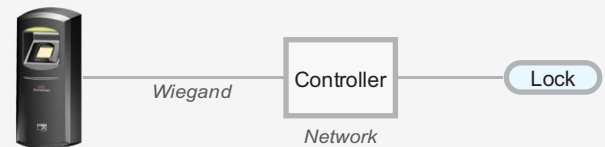
- 1) Smart card + Fingerprint (Default)
- 2) Fingerprint identification (1:N matching)
- 3) Smart card (Bypass card)

## Replacing Existing Readers

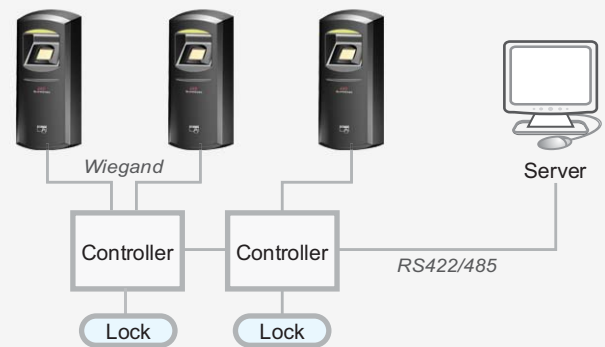


## Configuration

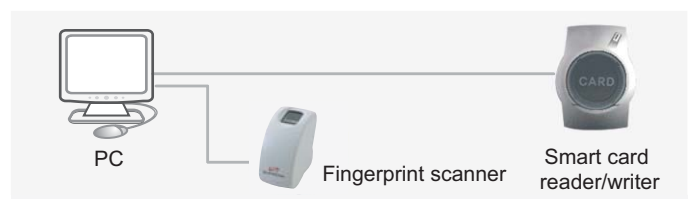
### 1) Standalone



### 2) Network



## Enrollment Station



For sales and inquiries, please contact:

Suprema Inc.

16F Parkview Office Tower, Jeongja, Bundang, Seongnam, Gyeonggi, 463-863 Korea

Tel: +82-31-783-4502, Fax: +82-31-783-4503

E-mail: sales@supremainc.com, http://www.supremainc.com

