

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


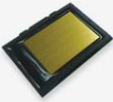
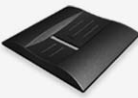
Fingerprint Smart Card Reader

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 | 75 x 175 x 54 (W x H x D) |

* 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.

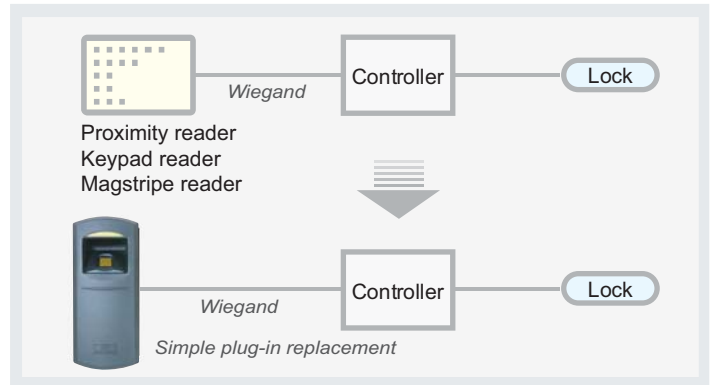
Contents:

- 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

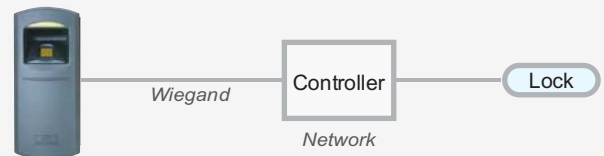
- 1) Smart card + Fingerprint (Default)
- 2) Fingerprint identification (1:N matching)
- 3) Smart card (Bypass card)

Replacing Existing Readers

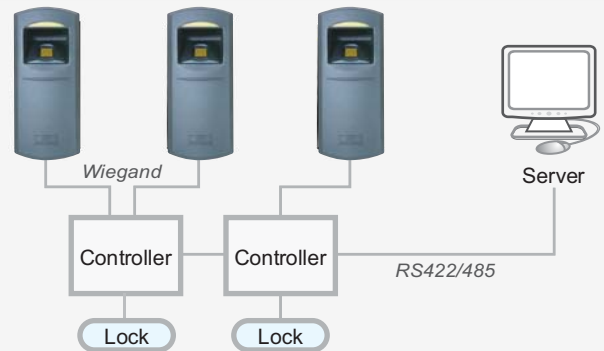


Configuration

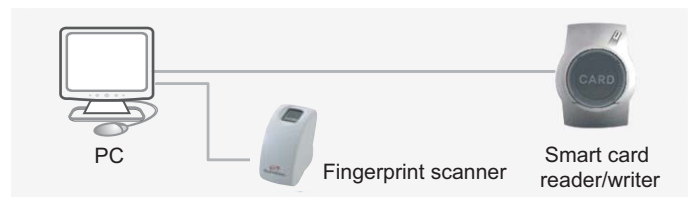
1) Standalone



2) Network



Enrollment Station



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