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Export price list



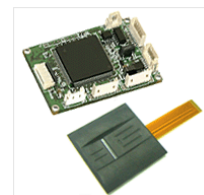
## Embedded Fingerprint Identification Module

### Fingerprint Embedded Module **FM-xx** (Stand-alone with CPU)

As a stand-alone fingerprint authentication system, the FM-xx integrates fingerprint capturing, processing, verification and storage into one system. **FM-xx** module is a stand-alone fingerprint recognition module composed of **different sensors** and processing board. With built-in high speed CPU and optimized fingerprint recognition algorithm, FM-xx boasts high identification rate and supports **high speed 1:N identification** and **uploadability** and **downloadability** of data, providing optimal condition for application to access control system. It provides high recognition ratio even to small-size, wet, dry, calloused fingerprint in any conditions. Programmable 9 x I/O (CMOS Level) for 3 x LED, 3 x Output and 3 x Input. 2 x RS-232, 1 x RS-2323 TTL, 1x RS-485/422

**Order Nr. 1.1**    **Module FM-xx**    Minimum Order 10 pcs, 1 - 2 Engineering sample available

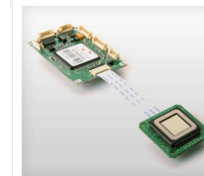
|                    |  |
|--------------------|--|
| CPU                | 400 MHz DSP                            |
| Flash memory       | 4 MB                                   |
| EER                | < 0.1%                                 |
| Enrollment time    | 1 sec                                  |
| Verification time  | 1 sec                                  |
| Template size      | 256-384 Bytes konfig.                  |
| Template capacity  | 9000 (2 templates per 1 finger)        |
| Host communication | Asynchronous serial, CMOS level (3.3V) |
| External I/O       | 8 ports, configurable digital I/O      |
| Encryption         | 256 bit AES                            |
| Supply voltage     | 5 V DC regulated                       |
| Power consumption  | 110 mA (peak) / 100 mA (idle)          |
| Power-on time      | < 100 msec                             |
| Size               | 63 x 43 x 10 mm (L x W x H)            |
| Resolution         | 500 (dpi)                              |
| Temperature        | -20°C bis +55°C                        |
| Sensing area       | 14.2 x 0.4 (mm)                        |
| LOG capacity       | 12,800 event                           |
| Wiegand            | CMOS (0 - 5V) level                    |



Atmel Thermal-Sweep Sensor



Upek capacitiv Sensor



Authentec AF-S2 Sensor

- Order Nr. 1.1**    **FM-FC Modul Atmel Thermal-Sweep Sensor**
- Order Nr. 1.2**    **FM-TC Modul Upek capacitiv Sensor**
- Order Nr. 1.3**    **FM-FL Modul Authentec AF-S2 Sensor**

## Desktop Fingerprint Input Devices – PC based

### Certis Thermal-Sweep Desktop Reader

Thermal Sweep Desktop Reader. High quality and robust reader with fast and encrypted data transfer.

|                     |                     |
|---------------------|---------------------|
| Scanner technology: | Thermo Sweep Sensor |
| Resolution:         | 500 dpi             |
| Temp.:              | -10C - +40C         |
| Port:               | USB 1.1             |
| Weight:             | 25 g                |
| Sensing area:       | 14.2 x 0.4 (mm)     |
| Image size:         | 280 x 8 (pixel)     |
| Power consumption:  | 70 mA               |

Availabel SDK: Biometrix **BioCheck SDK 1: N** Win 32-Bit 2K/XP/Vista

**Order Nr. 4.1** **Certis**



### NitGen® Optical CMOS-Desktop Reader

High quality reader. Encrypted data transfer

|                    |              |
|--------------------|--------------|
| Scannertechnology: | Optical CMOS |
| Resolution:        | 500 dpi      |
| Port:              | USB/parallel |
| Scan area:         | 13.6x16.2 mm |
| Dim.:              | 65x35x25 mm  |
| Temp.:             | - 0C/+60C    |

Standard Logon Software: Logon Win 98/2000/XP **included.**  
 Availabel SDK: **SecuGen SDK 1:1** or  
 Biometrix **BioCheck SDK 1: N** Win 32-Bit 2K/XP/Vista

**Order Nr. 4.2** **NitGen**



### Shimizu® Optical CMOS-Desktop Reader

High quality and robust with fast data transfer

|                    |                 |
|--------------------|-----------------|
| Resolution:        | 500 dpi         |
| Scan area:         | 13 x 13 mm      |
| Dim.:              | 80 x 45 x 35 mm |
| Temp.:             | 0C/+60C         |
| Port:              | USB 1.1         |
| Weight:            | 25 g            |
| Power consumption: | 170 mA          |

Standard Logon Software: BioGuard for W98/SE/ME/2K/XP **included.**  
 Availabel SDK: **Shimuzu SDK 1:1** or  
 Biometrix **BioCheck SDK 1: N** Win 32-Bit 2K/XP/Vista

**Order Nr. 4.3** **Shimizu**



### FingerPro RF Swipe Reader Desktop **NEW**

Professioneller Radio Frequency (RF) Swipe Desktop Reader. Fast Data transfer. Robust Design. Capture dirty, wet, dry or cold Finger.

|                |                             |
|----------------|-----------------------------|
| Scanner:       | RF Swipe                    |
| Image size:    | 200 x 8 (pixel)             |
| Resolution:    | 508 dpi                     |
| Operat. temp.: | -10C bis +40C               |
| Port:          | USB 1.1/2.0                 |
| Weight:        | 22,5 g                      |
| Consumption:   | 170 mA                      |
| Dim:           | 70 (L) x 32 (W) x 10 (H) mm |

Standard Logon Software: Vita-Key Logon for W98SE/ME/2K/XP **included.**  
 Availabel SDK: Biometrix **BioCheck SDK 1: N** Win 32-Bit 2K/XP/Vista

**Order Nr. 4.4** **FingerPro**





## Fingerprint Software Developer Kit

### BioCheck Fingerprint Search Engine SDK

Win 32-Bit 2K/XP/Vista

#### Description:

BioCheck use a **fingerprint sensor independent, high speed, one-to-many matching** algorithm, which is intended for system integrators who need reliable and powerful fingerprint identification engine for their security systems.

BioCheck Fingerprint Search Engine is available as a 32-Bit Windows Software Development Kit (SDK), it can be easily integrated into a customer's security system, and allows to achieve very high fingerprint recognition quality from any image files, Scanner or Sensor type.

BioCheck Fingerprint Search Engine is an extremely powerful fingerprint search engine for lightning-fast, automatic identification (one-to-many 1: N identification and one-to-one 1:1 verification). BioCheck Fingerprint Search Engine employs state-of-the-art algorithms for enrollment and identification, setting new standards in fingerprint recognition technology. BioCheck Fingerprint Search Engine use for image pre-processing a new class of adaptive image filters.

The automatically fingerprint feature selection sorts prints by feature classes (global features), thereby reducing the searching times significantly. Matching speed 7000 prints per second in 1:N mode, sometimes even more are obtained as a result. Features from three different prints of the same finger are combined into one template, resulting in a virtual magnification of the scan area, and therefore an as yet unequalled exactness of recognition with extremely small false rejection rates.

BioCheck Fingerprint Search Engine does not require the presence of the fingerprint core or delta points in the image or in the center of scan area and can recognize a fingerprint from any part of it. However, if these points are present, it uses them for more reliable recognition. Fingers can be placed on the reader with a rotation of up to 360 degrees. Only 27% of the enrolled print area are sufficient for exact and accurate recognition.

The integrator has a complete control over SDK data input and output; therefore SDK functions can be used in connection with any scanner, any database, and any user interface.

|                           |                |
|---------------------------|----------------|
| Identificationsalgorithm: | minutienbased  |
| Matching time:            | 7000 FP/ sec.! |
| Rotation:                 | 0° - 360°      |
| FAR:                      | 0.0001%        |
| FRR:                      | 0.001%         |
| Template size:            | 300-900 Byte   |
| Enrollment time:          | 0.2 – 0.3 sec. |

#### API Function:

- Features-extraction from bitmap
- Generalized triple enrollmend
- Compare features by pre-sort

#### Image Control Driver DLL

Support the following Fingerprint Devices for using in connection with BioCheck SDK for image acquisition.

- SecuGen/NitGen Device for USB
- Shimizu Device for USB
- and others

BioCheck SDK comes with all necessary DLL´s, header files (supports C, C++) and BioCheck Demo-Program Source-Code and Image Control Driver DLL. Manual english. Distributed media CD-ROM. Without fingerprint device.

**Order Nr. 5.1** BioCheck Fingerprint Search Engine SDK **1.05.01** with one registration key for one PC

**Order Nr. 5.11** Additional HardLock (Dongle) unlock BioCheck DLL registration key for each PC installation.

### NitGen Fingerprint SDK

Win 32-Bit 2K/XP

- Software Developer Kit 1:1 for Windows support VC++6, VB 6, Delphi, C#.Net, ASP, Sample Source Code
- Software Developer Kit NitGenSearch 1: N/1:1 for Windows support VC++6, VB 6, Delphi, C#.Net, Sample Source Code
- Software Developer Kit for Linux 2.6 or higher, Sample Source Code

**Order Nr. 5.2** NitGen SDK **non-restricted Licence**

### Shimizu Fingerprint SDK

Win 32-Bit 2K/XP

- Software Developer Kit 1: N / 1:1 for Windows support VC++6, VB6, VB6.Net, Delphi, Borland C++ Builder, Sample Source Code

**Order Nr. 5.3** Tacoma/Shimizu SDK **non-restricted Licence**

## One-Touch Terminal

First Check-In/Late Check-Out

### BioGate Sensor-Unit Mini Terminal (for outside use IP65)

The BioGate-Unit is an advanced biometric access reader equipped with award winning fingerprint recognition engine. The BioGate-Unit is a fingerprint access reader equipped with fast one to many fingerprint identification engine. Enrolled with more than hundreds of users, identification can be done in less than one second. BioGate-Unit also provides customers with a thermal sweep fingerprint sensor from Atmel.

With the Host/Relay Controller, the BioGate provides Timezone definition for access control and duress setting for different finger for one of two relays. The BioGate Sensor-Unit works stand-alone or connected to Host PC. Without Host/Relay Controller the BioGate Sensor-Unit work as a PC Sub-system only for Time Attendance (First Check IN / Late Check OUT).

Includes Windows BioAdmin Software for easy and simple manage of Device, -User, -Time zone, - Duress settings and Event Log export as .csv Datei (Excel).



|                            |  |
|----------------------------|--|
| CPU                        | 400 MHz DSP                                    |
| Flash memory               | 4 MB   |
| EER                        | < 0.1%   |
| Enrollment time            | 850 msec                                       |
| 1:1000 Identification time | 990 msec                                       |
| Template size              | 384 Bytes                                      |
| Template capacity          | 9,000 at 4MB flash                             |
| Host communication         | RS232 and RS485 9600 - 115200 bps              |
| External I/O               | 1 x TTL output, event and pattern programmable |
| Encryption                 | 256 bit AES (fingerprint data protection)      |
| Supply voltage             | 9 ~ 24 V DC                                    |

#### Order Nr. 11.1 BioGate Sensor-Unit

Supports:

#### Order Nr. 11.2 Host/Relay Controller

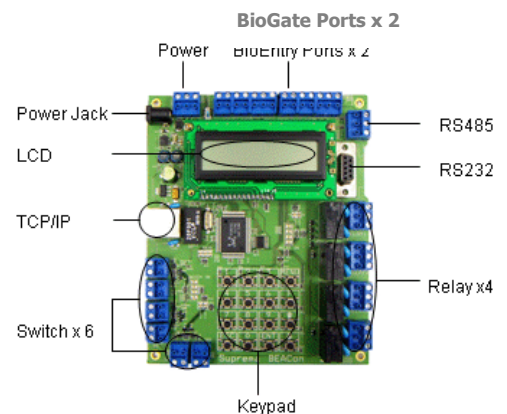
### BioGate Host/Relay Controller

The Host/Relay Controller is a door controller with built-in LCD and keypad. Connected to BioGate the Host/Relay Controller will eliminate the need for a host PC and enhance the security level of your application. With its easy operation, Host/Relay Controller provides the best solution for a small office requiring simple access control system in a cost-effective manner.

Easy setup and fingerprint registration using LCD and keypad. Realize a complete access control system without a host PC in standalone mode. Network mode via RS232/485 interface and TCP/IP interface. Enhance the security using encrypted secure protocol. Versatile input switch and output relay. Supports up to 2 x BioGate

|                        |  |
|------------------------|--|
| CPU:                   | 8-bit Microprocessor   |
| Reader:                | Sensor-Unit x 2  |
| Input Switch:          | Door Contact x 1, Request to Exit x 1, Configurable x 2                |
| Output Relay:          | Form C Relay (Common/NC/NO, 250V/5A) x 2 Extendable up to 4 (optional) |
| Host Communication:    | RS232, RS485 and TCP/IP  |
| Display:               | 16 x 2 character LCD   |
| Keypad:                | 16 Numeric Keys  |
| Power:                 | 12 V DC 300mA  |
| Operating Temperature: | 0 C ~ 50 C   |
| Humidity:              | 0 ~ 90% Non-condensing   |
| Accessories:           | Plastic Case   |

#### Order Nr. 11.2 Host/Relay Controller



## One-Touch-Terminal

First Check-In/Late Check-Out

### BioLock F7 Fingerprint-Terminal

Access Control and Time Attendance with LC- Display and Keypad. 500 User, 1:N /1:1 / PIN, **optical** Sensor, 1 x Relay-out, standalone or Network. Sleep Mode.



#### Technical Information

|                             |   |
|-----------------------------|---|
| Sensor :                    | Optisch CMOS 512 dpi  |
| User capacity :             | 500   |
| Transaction capacity :      | 30000   |
| Verification mode :         | 1:1 or 1:N or PIN or FP   |
| Access Control :            | 50 Time Zone, 5 Grouping, 10 Combination, Holiday Management, support many fingerprints access, support standalone work |
| Electric lock control:      | Directness relay output 3A/12VDC  |
| Communicational:            | TCP/IP oder RS232 / RS485   |
| Keyboard and Display:       | LCD mit 80 character and figure keypad  |
| Power:                      | 9-24 VDC, stay current: 50mA, work current: 400mA   |
| Identification speed:       | <=2 seconds   |
| FRR:                        | <=1%  |
| FAR:                        | <=0.0001%   |
| Central Collection station: | USB Desktop Fingerprint Reader  |
| Temperature operating:      | 0°C - 45°C  |
| Humidity operating:         | 20% - 80%   |
| Language:                   | Deutsch, English, other Languages   |
| Size:                       | 180(L) x 82(W) x 55(H) mm   |
| Management Software:        | Transaction fingerprint management and Access control attendance options, and network management                        |
| Standard:                   | Wire Doorbell, Wiegand Out  |

**Order Nr. 10.6**

**BioLock F7**

## One-Touch-Terminal

Standalone Access Reader

### FingerLock F007 One-Touch Lock **New**

One-Touch Fingerprint Access Reader with heavy metal case. Easy to use. With build-in door relay. Standalone - no is PC needed. With IR remote control for programming. Capacity 118 User. Deleting of single userby user ID. Sleep mode.



**Order Nr. 10.8**

**FingerLock F007**

## Fingerprint Terminal

With In / Out Function Key and LC Display

### BioLock FU8 Fingerprint-Terminal

Access Control and Time Attendance Terminal with LC- Display and Keypad with 4 IN/OUT Key. 1500 User, 1:N /1:1 / PIN, **capactive** Sensor, 1 x Relay-out, standalone or Network. Sleep Mode.

#### Technische Daten

|   |  |
|---|--|
| Sensor :  | Upek TCS1 Sensor 512 dpi   |
| User capacity :   | 1500   |
| Transaction capacity :  | 50000  |
| Verification mode :   | 1:1 or 1:N or PIN or FP  |
| Access Control :  | 50 Time Zone, 5 Grouping, 10 Combination, Holiday  |
| Management, support many fingerprints access, support standalone work |  |
| Electric lock control:  | Directness relay output 3A/12VDC   |
| Communicational:  | TCP/IP oder RS232/ RS485   |
| Keyboard and Display:   | LCD with 80 character and figure keypad  |
| Power:  | 9-24 VDC, stay current: 50mA, work current: 400mA  |
| Identification speed:   | <=2 seconds  |
| FRR:  | <=1%   |
| FAR:  | <=0.0001%  |
| Central Collection station:   | USB Desktop Fingerprint Reader   |
| Temperature operating:  | 0°C - 45°C   |
| Humidity operating:   | 20% - 80%  |
| Language:   | Deutsch, English, other Languages  |
| Size:   | 180(L) x 82(W) x 55(H) mm  |
| Management Software:  | Transaction fingerprint management and Access control attendance options, and network management |



Order Nr. 10.7

**BioLock FU8**

## Fingerprint Terminal

With In / Out Function Key and LC Display

### NAC-2500 Fingerprint-Terminal **New**

Access Control and Time Attendance Terminal with LC- Display and Keypad with 4 x IN/OUT Function Key. 2 000 User (1x Finger/User), 1:N/1:1/PIN, **optical** CMOS Sensor, 1 x Relay-out, standalone or Network, RS485 and TCP/IP. NitGen Desktop Reader for central enrolment. Includes Win **AccessManager** Server/Client Windows Software supports MS-ACCESS or MS-SQL.

Order Nr. 10.4

**NAC-2500**



## Fingerprint Terminal

With In / Out Function Key and LC Display

### NAC-3000 Fingerprint-Terminal

Access Control and Time Attendance Terminal with LC- Display and Keypad with 4 x IN/OUT Function Key. 2 000 User (2 x Finger/User), 1:N/1:1/PIN, **optical** CMOS Sensor, 1 x Relay-out, standalone or Network, RS485 and TCP/IP. NitGen Desktop Reader for central enrolment. Includes Win **AccessManager** Server/Client Windows Software supports MS-ACCESS or MS-SQL.

Order Nr. 10.3

**NAC-3000**



## Fingerprint Terminal

With In / Out Function Key and LC Display

### FingKey Fingerprint -Terminal

#### FingKey Access Terminal IP65 **New**

Access Control and Time Attendance Terminal with LC- Display and Touch Keypad with 4 x IN/OUT Function Key. **2000** User (1x Finger/User), 1:N/1:1/PIN, **optical** CMOS Sensor, 1 x Relay-out, standalone or Network, RS485 and TCP/IP. NitGen Desktop Reader for central enrolment. Includes Win **AccessManager** Server/Client Windows Software supports MS-ACCESS or MS-SQL.



**Order Nr. 10.9**

**FingKey Access**

### Fingerprint Terminal **VF30** **New**

Access Control and Time Attendance Terminal with LC- Display and Keypad  
Optical waterproof fingerprint sensor. Scratch-proof, unbreakable and durable.  
Well accept all kinds of fingerprints.

BioNano core algorithm platform of high performance and reliability  
New 2010 version algorithm with improved performance on wet and dry fingerprints.  
Support identification from different angles. Multiple languages including English, French, Spanish, Portuguese and Chinese etc.

Mini USB, RS485 and TCP/IP for network connection. Support Wiegand input/output.  
Tamper alarm output to connect with alarm equipment outside.  
Direct lock control to open door. Optional SC021/SC822 access controller or any other standard access controller for separate type secure access control system.

Unique infrared auto wakeup design. Support realtime record download.  
Time zone and group access control, realtime data transfer monitor.  
Identification method: FP, Password. Standard 1000 fingerprints and 32000 records  
Wall mounted, combine 2-in-1 function for access control and time attendance



**Bestell Nr. 10.10**

**Fingerprint Terminal VF30**

## Fingerprint Terminal

With In / Out Function Key and Color LC Display

### BioStation Fingerprint-Terminal

|                      |   |
|----------------------|---|
| CPU :                | Dual CPU (32bit RISC + 400MHz DSP)        |
| Memory :             | 34MB flash + 34MB RAM                     |
| Display :            | 2.5" QVGA 16M Color LCD                   |
| Fingerprint Sensor : | Atmel Thermal-Sweep-Sensor                |
| Speed :              | 3,000/Sek.                                |
| Fingerprint Memory : | 5000/50,000 Fingerprint Templates         |
| Log Memory :         | 500,000 Ereignise                         |
| Network Interface :  | Wireless LAN (optional), TCP/IP, RS485    |
| PC Interface :       | USB, RS232                                |
| USB Memory Slot :    | USB Host                                  |
| Output Relais :      | E-Lock , Automatic door                   |
| Digital I/O's :      | Wiegand I/O, 4 TTL I/O                    |
|                      | Microphon and speaker for door phone      |
|                      | Navigation key for Menu movment           |
|                      | 4 Function Keys to user-defined functions |
| Operation modes :    | Fingerprint, PIN, PIN + Fingerprint       |
| Size:                | 135 x 128 x 50mm (W x H x D)              |



2.5" 16M Color LCD  
Wi-Fi Wireless LAN  
USB memory slot  
High quality soand

Display messages, video, animation and photos to convey various information and notices  
Easy data access and contents transfer from PC using wireless network without wiring  
Easy data transfer to PC or other BIOSTATIONS using a USB memory device  
16 bit Hi-Fi soand for backgroand music, soand effect and voice instructions

**Order Nr. 10.2**

**BioStation**

### **Biometrix Int.**

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URL: <http://www.biometrix.at>