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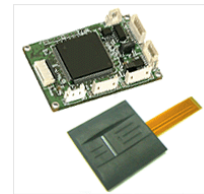
Embedded Fingerprint Identification Module

Fingerprint Embedded Module **FM-FC** (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-FC** 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

Module FM-FC / TC 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
FM-FC

Order Nr. 1.1 **FM-FC Modul** Atmel Thermal-Sweep Sensor

Desktop Fingerprint Input Devices – PC based

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

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

Not available at the moment



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**

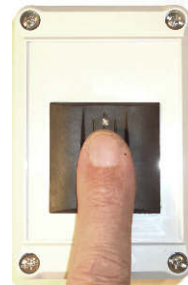
One-Touch Terminal

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



Order Nr. 11.2 Host/Relay Controller

Fingerprint Terminal

BioLock F09 Fingerprint-Terminal

Access Control and Time Attendance Terminal with LC- Display and Keypad with IN/OUT Key.
3000 User, 1:N /1:1 / PIN, optical CMOS Sensor, 1 x Relay-out, standalone or Network. Webserver.
Sleep Mode.

Order Nr. 10.7

Fingerprint Terminal BioLock F09



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



Export Price List Jan / 2012

Pos. Nr.	Description	Qty 's	Euro
EMBEDDED FINGERPRINT IDENTIFIKATION MODUL			
1.1	FM-FC Embedded Modul Atmel Thermal-Sweep Fingerprint Sensor with Plastic-Finger Guide and Build-in CPU Fingerprint-Recognition 1:1/1: N (Firmware) and Memory for 9000 Fingerprints. Matching Time 800 FP/ Sek, Fingerprint data Up-/Downloadable. 2 x RS232C, 1 x RS232 (3.3V), 1x RS422/485, Wiegand I/O. Watchdog, RTC. 3 x dig. Input, 3 x dig. Output, 3 x dig. LED Output. 5 Vcc. Inkl. Dokumentation, Com. Protocol, SDK for Win32/Linux and Firmware V1.7	10 Stk. Minimum Order 1 x Sample available	€ 130,-

FINGERPRINT READER DESKTOP

4.2	NitGen Desktop optical Sensor for USB Includes SecuDesk Logon for Win98SE/ME/2000/XP, File Encryption, Screensaver.	10 Stck. Minimumorder	€ 166,-
4.4	FingerPro RF Swipe Sensor Desktop Fingerprint Reader for USB Port. Includes Logon Software for Win9SE/ME/2000/XP, File Encryption, Screensaver.	10 Stck. Minimumorder	€ 78,-

FINGERPRINT SDK

5.1	BioCheck Fingerprint Search Engine SDK 1.05.02 for Win2K/XP. With MS VC++ 6 Workspace, Header files and Demo-Software Source-Code with ODBC driver. VB 6 sample. Matching speed 20 000 PF/Sek. Image Control Driver for NitGen, FingerPro and Shimizu USB Reader. Manual englisch. Includes one (1) HardLock Dongle.	restricted Lizenz	€ 320,-
5.11	Hardlock USB Dongle for unlock BioCheck DLL for each PC	1 - 10	€ 50,-
5.2	NitGen SDK Development-Tools – non-restricted Licencs for NitGen Desktop Reader USB - Software Developer Kit 1:1 for Windows supports VC6, VB6, Delphi, C#.Net, ASP Demo-Program with Source Code - Software Developer Kit NitGenSearch 1:N / 1:1 for Windows supports VC6, VB6, Delphi, C#.Net Matching Time 300 Fingerprints pro Sek. Demo-Program Source Code - Software Developer Kit for Linux 2.6 or higher. Demo-Program with Source Code.	non-restricted Lizenz	€ 220,-

Fingerprint Terminal

10.7	Fingerprint-Terminal BioLock F09 standalone or Ethernet TCP/IP, RS232, RS485 for 3000 User. Fingerprint, PIN, FP+ PIN. 1:1 /1:N. Relais out. Webserver. Includes BioLock Windows Access Control - and T&A Software for Device-, User -, Event -and Report Management Software. Not for Out side use.	1 - 10 Stck.	€ 355,-
10.10	BioOffice VF30 Terminal standalone or Ethernet TCP/IP, RS485. For 1000 User (2 x FP/User). Includes BioOffice AC/T&A Manager Device-, User -, Event -and Report Management Software. Not for Out side use.	1 – 10 Stck	€ 309,-

BioGate Access Reader

11.1	BioGate Sensor-Unit for Access Control with Time Log. Memory for 9 000 User. Status LED yellow/green/red, Beeper, 1 x Relais Output, 1 x RS232, 1 x RS485, Li-Batt CR2030 for RTC. Industrial Plastic Cover IP65 RAL Grey. For Out side use with weather protection cover. Power 12V DC. Includes BioAdmin Server/Client v4.2 Device-, User -, Event -and Report Management Software.	1 - 10 Stck	€ 290,-
11.2	BioGate Host/Relais Controller (BEACon) Microcontroller based. With LCD Display, 16 stelliges Keypad, selektives Enrollment and Delete of Fingerprints,with build-in RS232 to RS485 Converter and Ethernet TCP/IP, 4 x Relais OUT, Power 12V DC. Mit Plastic Cover black for inside. Dim: 180x210x70 mm	1 - 10 Stck	€ 110,-

Payment: prepayment by T/T bank transfer
Validity: Feb. 2011
Price: Euro €, excl.VAT, ex Vienna

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