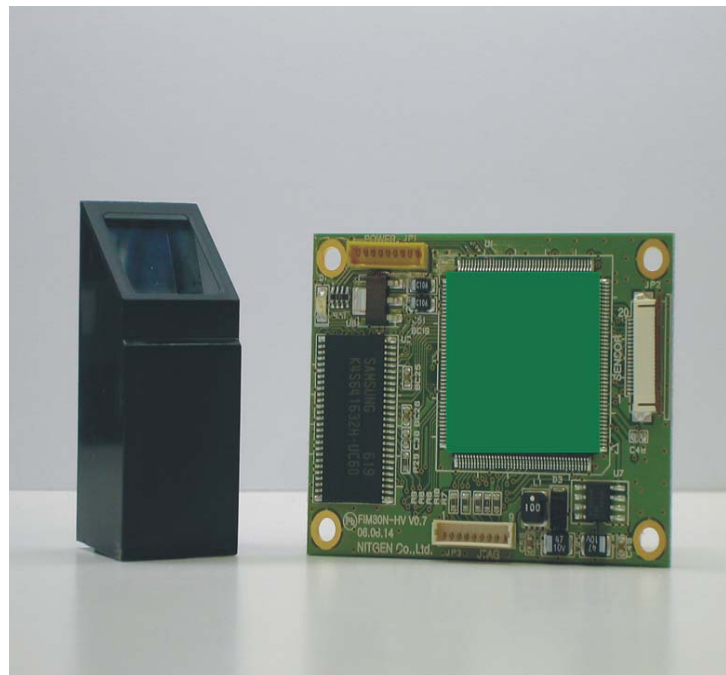


FIM 30

Advanced Confidentiality



- > Non volatile store with a 100 fingerprint capacity
- > PC or host connection
- > High accuracy of identification
- > Off-line and on-line integrated functionality



Why Kimaldi distributes Nitgen?

Nitgen is the World Wide leader in technology and biometric applications, dedicated to solutions of fingerprint identification.

Due to the efforts of de I+D department, and attending dynamically to the biometric security market demands, Nitgen has quickly become the leader in biometric solutions and applications.

Nitgen has developed, and now is offering, advanced solutions in biometric identification, that couldn't be possible without biometric technologies as matching algorithm, optic print sensor, hardware applications and software integration.

Fim 30 is a stand-alone fingerprint identification module composed with an optic sensor and a processing board. Due to a high speed CPU integration and an optimized fingerprint recognition algorithm, Fim 30 offers a high recognition capacity and a high speed for identification operations 1:N and verification 1:1.

Nitgen observes the regulations ISO9001 and ISO14001 (June 2001).

The quality of Nitgen products is extensively recognized by several international prizes to its biometric technology. The main Nitgen products include hardware applications as lockers with a fingerprint reader, access control systems and different SDK types to hardware development.

Description

FIM 20 is a stand-alone fingerprint recognition module perfect for integrators, both **on-line** and **off-line** applications. Optic scanner technology provides with the maximum strength, durability, security, also against downloads, easily usability and high resolution in the fingerprint captures.

Off-line applications:

- Users get kept on storage system (up to 4,000 fingerprints) and get identify using the search engine of the internal algorithm.

On-line applications:

- Fingerprints we want to verify (1:1) or identify (1:N) get kept in the non volatile storage of the module, or are sent from de port RS-232 to be recognised by the system. Besides, admits ASCII commands to control the system from a host.

System features

- > On-line and off-line integrated functionality of fingerprint identification
- > Quickly acquisition of any fingerprint, almost under any condition
- > High accuracy of identification
- > Cavity available to integrate the optic sensor in a flat surface for both models
- > High identification rate: FAR:1/100.000 and FRR: 1/1.000
- > 100 fingerprints storage
- > Events storage: up to 2.000 logs
- > Communication protocol ASCII
- > Device's access from the host cant be protected through fingerprint or password
- > Compatible with RoHS regulation
- > Algorithm and high hardness optical sensor (7 Moh)
- > **FIM 3030**: includes optical module more compact and small dimesion
- > **FIM 3040**: includes optical module compatible with the last **model FIM 10**

Aplicaciones típicas

- > Access control, presence control, management of labour attendance system, automated teller machine, saves, vehicles control, hardware and electronic equipment, electronic point of sale, etc. Any application that requires an easily and safety identification for the user.

Technical Specifications

Optical sensor	FIM 3030: OPP03; FIM 3040: OPP04
Power Supply	5 ± 0.5 [V]
Current consume	60 ~ 250 (Max) [mA]
Identification time	1:1 less than a sec.; 1:N less than a 1 sec.
Identification Rate	FRR: 1/1.000; FAR: 1/100.000
Identification method	1:1, 1:N, password
Number of users	100
Events	2.000 ea
Interface	RS-232 (1 channel): 9600 ~ 115.200 [BPS]
Entries	3: log, cancelation and identification - Display, keyboard, beeper and LD
Exits	2: step and fail
Data encryption method	AES
Board specifications	DSP, 8MB SDRAM, Flash memory: 1
Dimension	43 x 60 mm.
Temperature / Humidity	-20 °C a 60 °C / RH 95%

