



miFaun

Finger Touch Secure Access

Biometric-Finger print authenticator

Manvish eTech Pvt. Ltd, Bangalore, India



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Finger Touch Secure Access



Finger print is a distinct identification for EVERY person.

It is universal, and since decades finger print is used for authentication during verification.



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miFaun, is an embedded Biometric application for authentication.

Biometrics links events to individuals. This is convenient, accurate, and is socially accepted.



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miFaun, is a secure access system and comes with a feature rich web enabled software.

It supports User ID with password, RF ID and their combination with Finger print during verification for access control.



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Specifications:

Operate on

- DC 12 V Power supply, models- S01-DCA & M01-DCA
- Power On Ethernet (POE), models- S01-POE & M01-POE (as per IEEE 802.3af standard)

Finger print sensor

- **Type**-Active Capacitive Measurement.
 - Based on Electrical property of Fingertip
- **Capture Process**: Reads 3D Images
- **Mode of Processing**: Distinct Area Detection method
- **False Rejection Ratio (FRR)**: ~ 1%
- **False Acceptance Ratio (FAR)**: 1:100000 to 1:300000



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Specifications...

Finger print sensor contd...

- Resolution: 152 x 200 pixels
 - Response Time: 0.5 to 0.7 Sec
 - Template Size: 368 Bytes
 - Failure to Enroll Rate (FER): < 1%
- 12 keys keypad.
 - 2 sets of NO/NC output for Door /Gate access control
 - 1 input for sensing Door/Gate status OR fire alarm included. .
 - RFID authentication supported.

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Specifications.....

- Based on 32 bit micro controller with Linux OS.
- Based on FPC 2000 ASIC controller.
- In built Ethernet for 10/100 mbps data rate.
- In built buzzer for audio alert.
- In build RTC with battery backup.
- Supports TCP/IP protocol.
- Periodic time synchronization between master and slave units.
- Single miFaun unit can control two Doors.
- Each unit supports up to 250 users.
- No. of Access Records 75,000





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Specification.....

Software

- Web enabled application software, reside on miFaun unit.
- Multi terminal units configured on LAN in Master slave mode.
- Standalone units are also supported
- Remote login is enabled for support and maintenance..
- Auto mailing of reports.
- Back up and restore data supported.
- 3 Secured user levels.
 - A. Super user
 - B. Company admin.
 - C. Department manager.

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Specifications....

- Applications:
1. Secure Access control.
 2. Time attendance monitoring.

- Supports:
- a. Customization for each organization.
 - b. Set up different departments.
 - c. Enroll employee's with Finger print

Fire alarm is interfaced for any emergency exit.

Programmable door setting.

Weight : 540 Gms.



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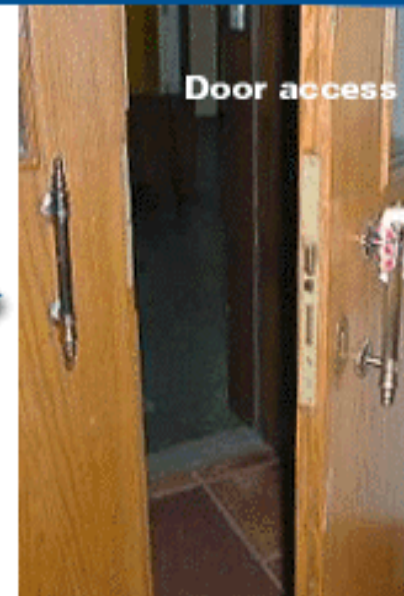
Mode 1: Key in the user ID, place your finger for verification.

Mode 1: User ID & Finger print

Type User ID



Finger on Sensor



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Mode 2: Use your RFID, then place your finger for verification.

Mode 2: RF ID & Finger print





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Mode 3: Only RF ID or user ID can be used.

Mode 3: RF ID





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When RF ID is used with Finger Print.

1. The employee official ID can be used on RFID.
2. An ID number can be 9 digits long.
3. The authorization is fast, useful in peak-hrs.
4. *miFaun*, can be used for reading and writing RFID.
5. RF ID can be with photo, similar to photo ID card.



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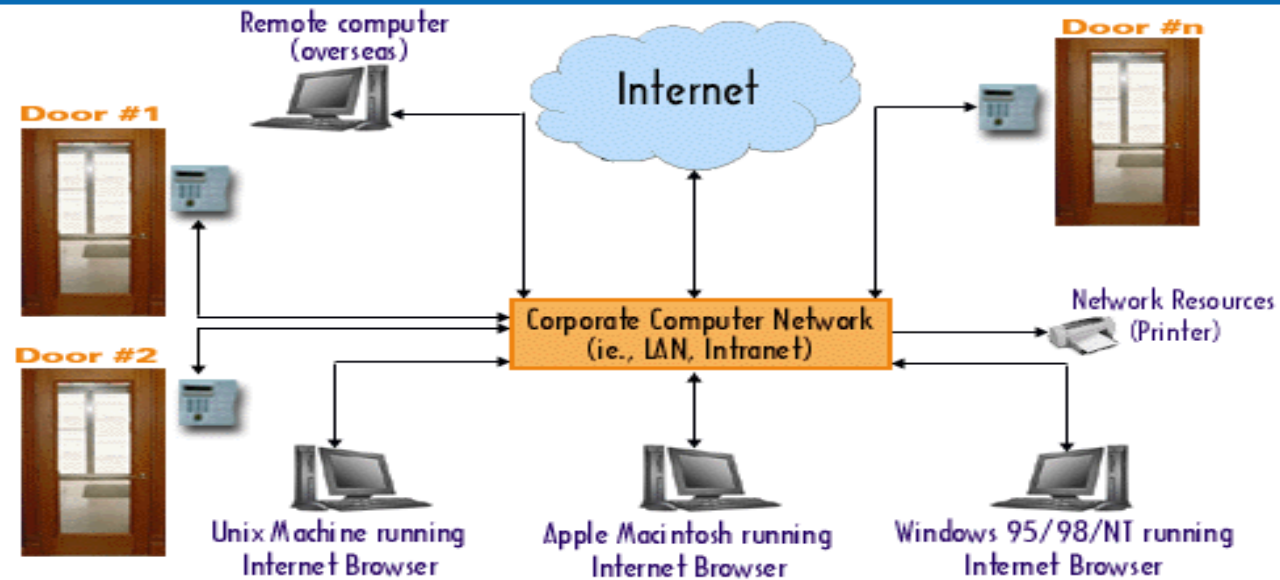
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Multiple units on LAN with access to Internet.

LAN Network





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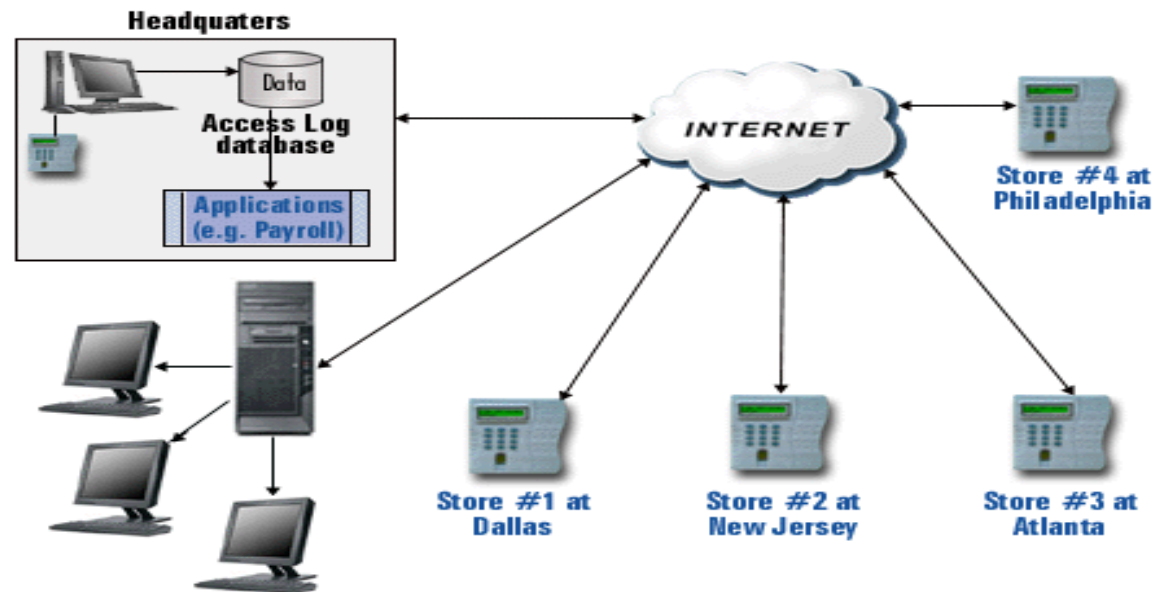
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Multiple units on WAN, remote access to server via Internet.

WAN Network





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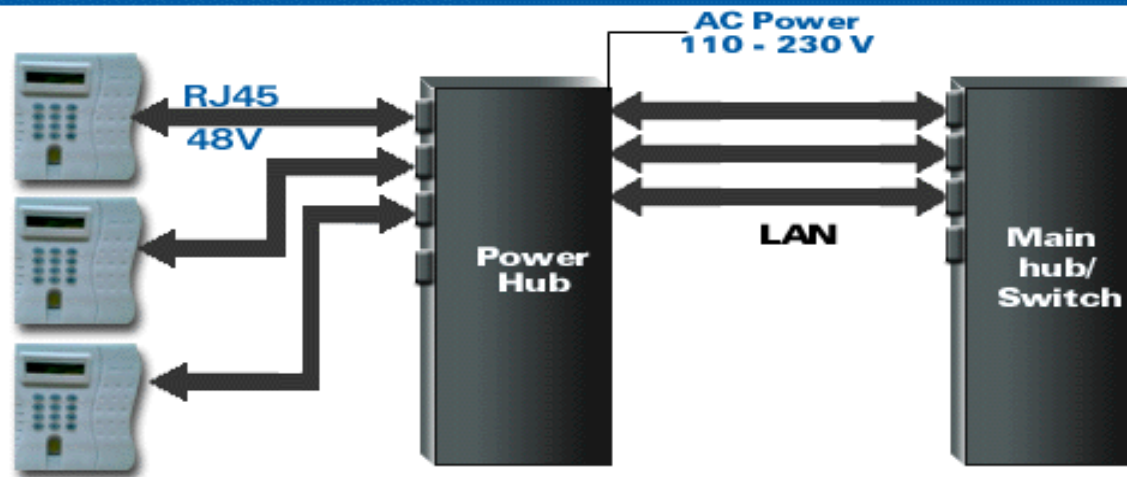
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Power sent to unit through Ethernet cable as per IEEE 802.3af.

Power over ethernet (PoE)





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Power over Ethernet (PoE) cable as per IEEE 802.3af.

1. First fingerprint authenticator enabled with PoE.
2. Additional cabling is not required.
3. Critical power requirement, is drawn on the same data cable.
4. Central power injector with UPS can be planned.
5. miFaun units can roam on the network freely.



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1. Secure Access control.

- miFaun will interface to automated or motored door for access.
- Only authenticated users will use the door.
- Authentication is based on User-ID / RF-ID with Fingerprint.
- miFaun can be configured for both single unit or multi-terminal units on LAN.



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- **Single Door Application:**

Common door used for Entry and Exit

–In this case 2 miFaun units are required:

- One configured for IN outside the door.
- One configured for OUT Inside the door.

–Access rights must be set for every user.

- Access can be controlled during holidays, outside office timings, and for any restricted time interval.
- In addition access rights can be assigned to every visitor.



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- Two Door system:
 - Separate doors are used for IN and OUT
 - In this case 2 miFaun units are required:
 - One for IN door configured IN ONLY.
 - One for OUT door Configured for OUT ONLY.
 - Only authorized users can access these doors.
 - Access rights are suitably set for holidays, out side office hrs and limited time access for visitors.



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- Multiple Doors Application:
 - Office may have more doors to access departments.
 - Each door will need functions like ONLY IN or OUT and also doors may need both IN and OUT function
 - Access can be controlled to individuals to access through a specific door, or a group of doors for both IN and OUT function.
 - Access can ALSO be for any day of week, and time.



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Time attendance monitoring:

- miFaun can be with or without automated access control.
- System will record time and date of entry, exit of each authorized user from different departments.
- Employee's & visitors can be set for secure access.
- miFaun could be used as part of security system by restricting access to specific department or area.
- Reports are generated in HTML, CSV (EXCEL) and TEXT format



Proposed system for Bank

- ◆ Bank needs to provide Security System for PCs to protect access from other users in the Bank.
- ◆ The present system is only password protected.
- ◆ Users can give password to others or other users can easily access to password

Proposed system for Bank

contd.....

- ◆ Secured access system is required to protect PCs accessed from other users
- ◆ Fingerprint access control system will provide better access control to PCs
- ◆ Only authorized user is allowed to access the PC
- ◆ Fingerprint authorization will be provided while booting the system.



Proposed system for Bank

contd...

- ◆ Whenever the PC is switched ON for booting, system will prompt for Fingerprint
- ◆ If the Fingerprint is valid, system will continue to boot.
- ◆ If the Fingerprint is not valid, system will abort the booting.





Proposed system for Bank

◆ Main Features:

- Fingerprint Registration
- More than one Fingerprint authentication (Manager and user)
- Master Fingerprint authentication for emergency booting (Only authorized person)
- Fingerprint Management (Add, Delete, Modify)
- Access log records
- Auto lock for more than 3 unauthorized attempt and capture the Fingerprint of the unauthorized person.



Proposed system for Bank

- ◆ Can capture more than one Fingerprint per user
- ◆ Interface Serial/USB/PC-add ON
- ◆ Operating Platform:
 - Independent (stand alone)
 - Windows
 - Linux



Proposed system for Bank

◆ Technology:

- Embedded System (Highly Reliable)
- Static sensor
- Built-in Buzzer for Audio alert
- Built-in Real Time Clock (RTC) for Time management with battery backup
- Compact
- Front end GUI software for configuration, setup and registration



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Thank you

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