Standalone Optical Fingerprint Modules

:: Introduction

FDA01 (Standalone with built in CPU) is the fingerprint recognition module comprised of optical sensor and processing board. With high speed CPU and accurate performance algorithm, it supports high and faster recognition speed and applicable to various products through simple but robust hardware design technology. In addition, since it contains CPU and memory in the processing board, user enrollment and authentication for fingerprint recognition are available without separate PC.

Fingerprint module India 1000 user support Optical Fingerprints standalone module, Fingerprint scanning device, Fingerprint sensors, Fingerprint scanners, Fingerprints software development kit, Fingerprint SDK, Fingerprint Modules scanners sensors for biometric system, Biometric fingerprint time attendance, Biometric fingerprint access control, Fingerprint developers kit, nitgen scanner, Secugen scanner, integration development software, Keyboard Fingerprint Scanner, Fingerprint Scanning, Biometrics india, Biometric.

:: Features

- Built in fingerprint authentication function.
- Uploading/Downloading user's fingerprint data.
- Storage function for authentication log (8000 logs).
- System settings (sensor, authentication level, communication speed and etc.)
- 1:1 matching, group matching

:: Applications

- Access controller
- Door lock
- Safes
- ATM, POS
- Personal computer/workstation security
- Network/enterprise security
- Internet content security
- E-commerce
- B2B transactions
- Electronic transactions
- Bank and financial systems
- Medical information systems
- Any password-based application

:: Fingerprint Recognition Sensor ::
- High-performance, maintenance-free optical fingerprint sensor
- Resistance to scratches, impact, vibration and electrostatic shock
- Fast and accurate verification
- Latent print image removal (does not accept prints left behind)
- Encryption of fingerprint templates (cannot be used to reconstruct fingerprint images)
- One year warranty

:: Technical Specifications

<table>
<thead>
<tr>
<th>Features</th>
<th>Details</th>
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<tbody>
<tr>
<td>CPU Board spec.</td>
<td>32 bit RISC CPU, 1M RAM, 1M Flash</td>
</tr>
<tr>
<td>No. of users</td>
<td>720/2000/4000 users (depending on flash memory)</td>
</tr>
<tr>
<td>Size</td>
<td>43 x 93 (mm)</td>
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<tr>
<td>Communication</td>
<td>RS232</td>
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<tr>
<td>Input/Output port</td>
<td>Input x 2, Output x 2 (Wiegand output multiplexed)</td>
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<tr>
<td>Fingerprint Sensor</td>
<td>Optical sensor (OPP01)</td>
</tr>
<tr>
<td>Verification Time</td>
<td>Shorter than 1 second</td>
</tr>
<tr>
<td>Error rate</td>
<td>FRR: 1/1000, FAR: 1/100000</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0 - 40 (°C)</td>
</tr>
<tr>
<td>Current consumption</td>
<td>Normal: 260 mA</td>
</tr>
<tr>
<td>Voltage</td>
<td>5 ± 0.2 (V)</td>
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