

CAMA-SM25

Optical Fingerprint Module

- ✓ 3000 Fingerprint Capacity
- ✓ 360 Degree Rotation Verification
- ✓ Auto-Learning Function
- ✓ Support 1:1 and 1:N fingerprint verification
- ✓ Touch Sensing Activation Function



CAMA-SM25 optical fingerprint module is one of best embedded fingerprint module developed by CAMA Biometrics. It integrated optical sensor,MCU,fingerprint algorithm,flash memory all together. It is an ideal fingerprint OEM module for biometric security developer and manufacturers.

Product Features

- **3000 Fingerprint Capacity**
3000 fingerprints can be stored
- **Auto-Learning Function**
Will improve fingerprint automatically
- **Uart Interface**
3.3V TTL uart interface
- **360 Degree Rotation Verification**
Users can press finger from any direction
- **Touch Sensing Activation Function**
Module will be activated when finger close
- **1:1 and 1: N verification**
Support both 1:1 and 1:N mode

Applications

- ✓ Biometric Time Attendance
- ✓ Biometric Access Control
- ✓ Biometric Door Lock
- ✓ Fingerprint Car Starter
- ✓ Fingerprint Safe Box Locker
- ✓ Biometric Vendor Machine

Technical Specifications

| PARAMETER | DESCRIPTION |
|---------------------------|--|
| Fingerprint Sensor | CAMA Optical Fingerprint Sensor |
| Fingerprint Scan Area | 18mm x 22mm |
| Pixel Matrix | 242 pixel x 266 pixel |
| Image Resolution | 500 DPI |
| Fingerprint Template | 496 bytes |
| Communication Interface | UART (3.3V TTL) |
| FRR | <0.1% |
| FAR | <0.001% |
| Identification Speed | 1:1<0.5s; 1:N<0.9s |
| Fingerprint User Capacity | 3000 Fingerprints |
| Work Current | <150mA |
| Standby Current | < 20 μ A |
| Power Supply | DC 3.3V \pm 10% |
| Work Temperature | -20°C- 60°C |
| Work Humidity | 20%-80% |
| Security Level | Level 1~ Level 5, Default setting: Level 3 |
| Communication Parameters | Parity = NONE, One Stop Bit = 1 Flow Control = NONE BaudRate:9600, 19200, 38400, 57600, 115200 (bps) Default: 115200bps |

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