

## CAMA-SM15

### 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-SM15 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 20mm
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 $\mu$ 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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