

CAMA-SM50

Embedded Optical Fingerprint Module

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



CAMA-SM50 is an ideal OEM fingerprint Sensor Module which is special designed for middle or small user capacity applications. It equipped with on-board fingerprint algorithm,mcu and flash memory. With its' compact structure, UART TTL interface, it can be easily integrated into different biometric recognition devices.

Product Features

- **500 Fingerprint Capacity**
500 fingerprints can be stored
- **Auto-Learning Funcion**
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 actived 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	17.9mm x 20.6mm
Pixel Matrix	242 pixel x 266 pixel
Image Resolution	500 DPI
Fingerprint Template	810 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	500 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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