

CAMA-SM2510K

Optical Fingerprint Module

- ✓ 9,998 Fingerprint Capacity
- ✓ 360 Degree Rotation Verification
- ✓ Auto-Learning Function
- ✓ Support 1:1 and 1:N fingerprint verification
- ✓ Touch Sensing Activation Function



CAMA-SM2510K optical fingerprint module is one of the best embedded fingerprint modules developed by CAMA Biometrics. It integrates an optical sensor, MCU, fingerprint algorithm, and flash memory all together. It is an ideal fingerprint OEM module for biometric security developers and manufacturers.

Product Features

- **9,998 Fingerprint Capacity**
9,998 fingerprints can be stored
- **360 Degree Rotation Verification**
Users can press finger from any direction
- **Auto-Learning Function**
Will improve fingerprint automatically
- **Touch Sensing Activation Function**
Module will be activated when finger close
- **Uart Interface**
3.3V TTL uart interface
- **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	Fingerprint Extract < 0.45s; 1:N < 1.5s
Fingerprint User Capacity	9998 Fingerprints can be used
Work Current	<280mA
Standby Current	< 20 μ A
Power Supply	DC 3.3V \pm 10%
Work Temperature	-25 $^{\circ}$ C - 60 $^{\circ}$ 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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