

CAMA-CRM160L

Round Shape Fingerprint Module

- ✓ Touch Sensing Activation Function
- ✓ Auto-Learning function
- ✓ Support UART communication interface
- ✓ 100 fingerprints user capacity
- ✓ Controllable Color LED Light Ring



Module Descriptions

CAMA-CRM160L is Newest and super slim round shape capacitive fingerprint sensor module (sensor + algorithm + processor chip) released by CAMABIO. It has the function like fingerprint image processing, fingerprint templates extracting, fingerprint templates matching, fingerprint searching, fingerprint templates storage, etc.. It is very convenient for manufacturers or developers to integrate CAMA-CRM160L into their own product system.

Product Features

● Auto-Learning Function

The fingerprint module can improve user's fingerprint data automatically during daily fingerprint verification.

● Touch Sensing Activation Function

Module will wake-up from sleeping mode when there is a fingerprint touch it.

● Support 1:1 and 1:N Verification

Support both 1:1 and 1:N Verification. It can suit for different applications.

● 360 Degree Rotation Verification

Users can identify their fingerprints from any direction.

● Controllable LED Light Ring

Developers can control the color of LED light ring to indicate user's operation.

● Super Slim and small size

As module size of small, can make your biometric device super slim.

Product Application

- ✓ Biometric Access control device
- ✓ Biometric Door Locks
- ✓ Fingerprint POS System
- ✓ Fingerprint Car Starter
- ✓ Fingerprint Safe Locker

Technical Specifications

PARAMETER		DESCRIPTION
Module size		R10.5mm
Sensor size		R7.5mm
DPI Resolution		500dpi
Grey Scale		256level
Frame rate		30FPS
Communication interface		UART
Working voltage		+3.3V
Working current	Capturing mode	<120mA
	Standby mode	4.5uA
Fingerprint capacity		100
Identify time		<1s@100
Auto-on time		≤100ms
Flash memory		1M byte
Interface PIN		6PIN, 1.0mm pitch
Interface communication		UART 3.3V TTL
Baud Rate		115200bps
Storage temperature		-40℃ -60℃
Working temperature		-20℃ -55℃
Humidity		0%-85%
FAR		<0.001%
FRR		≤0.1%
Matching method		1:1&1:N
Identification speed	Capturing speed	<480ms
	1:N Identification	<520ms
Touch Sense Activation	Touch sense function	Support
	Working Voltage	+3.3V
	Sleep Current	4.5uA@+3.3V
	Working Current	335uA@+3.3V
	Output Signal	High Level Valid
Supported O/S system		Embedded, Android, Linux, Wince, Windows and other O/S system.

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