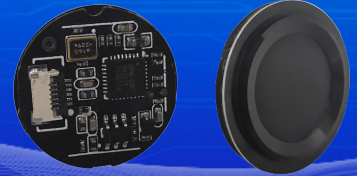


CAMA-CRM120 Fingerprint Module

- ✓ 3.08mm Super Slim Thickness
- ✓ Auto-Learning function
- ✓ Support UART communication interface
- ✓ 100 fingerprints user capacity
- ✓ 360 degree rotation verification



Module Descriptions

CAMA-CRM120 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 CRM120 into their product system.

Product Features

• Auto-Learning Function

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

• Excellent Performance for Special Fingers

CRM160L has an excellent performance for dry fingers, wet fingers, dirty fingers, etc.

• 5 Security level for setting

Developers can set different security level based on different working environment.

• 360 Degree Rotation Verification

Users can identify their fingerprints from any direction.

• Easy for programming and Integration

With CAMABIO communication protocols, UART Interface, easy for integration.

• Super Slim and small size

With 17.5mm diameter and 3.08mm thickness, it can make your product super slim.

Applications

- ✓ Biometric Time attendance & Access control device
- ✓ Biometric Door Locks
- ✓ Fingerprint POS system
- ✓ Fingerprint Car Security
- ✓ Fingerprint Safes

Technical Specifications

PARAMETER		DESCRIPTION
Module size		R8.75mm
Sensor size		R5.5mm
DPI Resolution		500dpi
Grey Scale		256level
Frame rate		30FPS
Communication interface		UART
Working voltage		+3.3V
Working current	Capturing mode	<35mA
	Standby mode	5uA
Fingerprint capacity		100
Identify time		<1s@100
Auto-on time		≤100ms
Flash capacity		1M byte
Interface PIN		6PIN, 0.5mm pitch
Interface communication		UART TTL
Baud Rate		115200bps
Storage temperature		-40°C-60°C
Working temperature		-20°C-55°C
Humidity		0%-85%
FAR		<0.001%
FRR		≤1.5%
Matching method		1:1&1:N
Identification speed	Capturing speed	325ms@xAlg
	1:N Identification	535ms@xAlg/100
Touch Sense Activation	Touch sense function	Support
	Working Voltage	+3.3V
	Sleep Current	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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