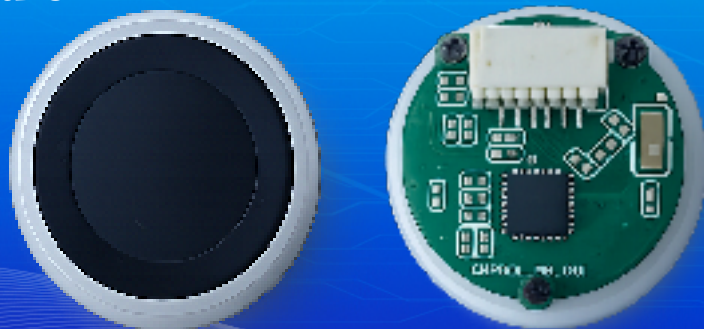


CAMA-CRM88L-20

Round Shape Fingerprint Module

- ✓ Touch Sensing Activation Function
- ✓ Auto-Learning function
- ✓ Support Live Finger Detection
- ✓ 20 fingerprints user capacity
- ✓ Three Color LED Light Ring



Module Descriptions

CAMA-CRM88L-20 is a compact round fingerprint module designed for consumer products that require convenient and reliable biometric authentication. With its small form factor and easy integration, it is well suited for fingerprint-enabled water bottles, drawer locks, padlocks, bicycle locks, home safes, and a wide range of personal security devices.

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.

● Three Color LED Light Ring

LED Light ring with red/green/blue three color for prompt users for status.

● Customizable dimensions and PCB layout

Flexible customization for module dimensions and PCB design.

Product Application

- ✓ Fingerprint Water Bottle
- ✓ Fingerprint Drawer Locker
- ✓ Fingerprint Padlock
- ✓ Fingerprint Bicycle Locker
- ✓ Fingerprint Safe Locker

Technical Specifications

PARAMETER		DESCRIPTION
Module size		R10.5 mm
Sensor size		R6.3mm
DPI Resolution		508dpi
Grey Scale		256level
Pixel Array		88 pixel x 88 pixel
Sensor Type		Capacitive Fingerprint Sensor
Working voltage		+3.3V
Working current	Capturing mode	<45mA
	Standby mode	<10uA
Fingerprint capacity		20 Fingerprints
Template Size		512 bytes
Module Speed		Identify time <80ms Auto-on ≤150ms
LED light Ring		Three color LED light ring
Interface PIN		6PIN, 1.0mm pitch
Interface communication		UART
Baud Rate		115200bps
Storage temperature		-24℃ -60℃
Working temperature		-20℃ -55℃
Humidity		0-85%RH
FAR		<0.001%
FRR		≤0.1%
Matching method		1:1&1:N
Static Test	Contact Discharge	≥±8KV
	Air Discharge	≥±15KV
Touch Sense Activation	Touch auto-on function	Support
	Working Voltage	+3.3V
	Sleep Current	10uA@+3.3V
	Working Current	200uA@+3.3V
	Output Signal	High Level Valid
Supported O/S system		Embedded, Android, Linux, Win CE, Windows and other O/S system.

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