Kapazitiver Fingerabdruckleser mit UART & USB Ausgang
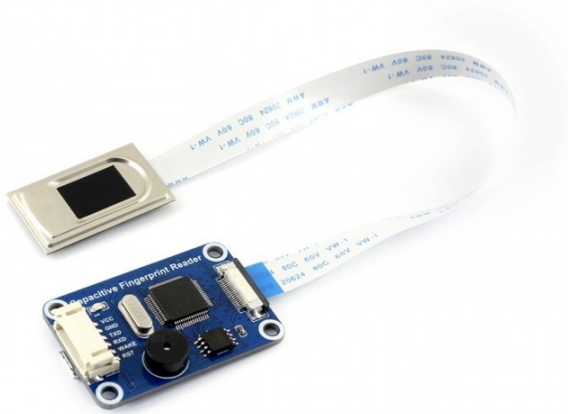

Order number: FPR-CAP

Hersteller: Waveshare

EAN: 614961951235

Herkunftsland: China

Overview

The Capacitive Fingerprint Reader is a standard fingerprinting module designed for secondary development, allows fast and stable fingerprint verification.

Based on a high-speed digital processor STM32F105R8, combined with high-security commercial fingerprinting algorithm, and advanced semiconductor sensor, the Capacitive Fingerprint Reader becomes a simple but smart integration module, provides functionalities like fingerprint enrolling, image processing, feature finding, template generating and storing, fingerprint matching and searching, etc.

Features

- Easy to use by some simple commands, you don't have to know any fingerprint technology, or the module inter structure/calculation
- Commercial fingerprinting algorithm, stable performance, fast verification
- Sensitive detection, just touch the collecting window lightly, without pressing
- Allows to freely input/output fingerprint images, fingerprint feature file and other fingerprinting actions
- Dual communication, UART or USB
- Processor will enter sleep and wake up when detecting, achieves low power consumption
- Comes with rich related resources (software on PC, development SDK, tools, and examples for Raspberry/Arduino/STM32)

Applications

- Fingerprint lock
- Fingerprint safe deposit box
- Access control system
- Clock in and out

Specifications

Parameter	Value

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Processor (CPU)	STM32F105
Sensor	Semiconductor (capacitive)
Module dimension (mm)	45 x 30
Sensor dimension (mm)	33.4 x 20.4
Image	DPI 508
Image resolution	192 x 256
Sensing area (mm)	9.6 x 12.8
Fingerprint capacity	1000 (expandable)
Security level	0-9 low to high security, 5 by default
Matching time	1s
False acceptance rate	0.0001%
False rejection rate	0.01%
Dynamic current	<40mA
Operating voltage	3.3V-5V
Communication	UART or USB
Anti-electrostatic	aerial discharge: ± 15KV
	contact discharge: ± 8KV

Development Resources

- Wiki : https://www.waveshare.com/wiki/Capacitive_Fingerprint_Reader

Package Content

- Capacitive Fingerprint Reader x1
- PH2.0 wire 20cm 6 Pin x 1

Weitere Bilder: