

# SLK20M

## Embedded Optical Fingerprint Module

Ideal design

Liveness detection



## Overview

SLK20M as one of the smallest embedded optical modules in the world combines a 2-megapixel image sensor with an ARM9 processor for powerful performance. With the sophisticated design, it can be flexibly integrated with various system applications without any additional accessories.

## Features

- Easy integration with smallest size without any extra accessories
- Stable operation under strong light source
- Durable glass touch surface
- Quick scan with dry, wet and rough fingerprints

# Specifications

Sensor Type	Optical
CPU	280MHz DSP
Flash	32 MB
SoC	RTOS
Image Quality	2-megapixel CMOS
Encrypted Fingerprint Data	Yes
Sunlight Operation	Yes, Dark Field and Automatic Gain / Exposure
Water Splash Proof	Yes
Power Consumption	5V:200mA Scanning; 5V:60mA idle (waiting for finger)
Fingerprint Liveness Detection	Yes
LED	White
Product Certifications	FCC, CE, RoHS, PIV
Power Voltage	5V (USB) / 3.3V (TTL-RS232)
Power Current	200mA
Communication	UART (115,200 bps / TTL3.3V) / USB 2.0
Interface Socket	Molex 51021- 0700 ( 7 pin; 1.25 mm)
Image Resolution	500 ~ 1,000 dpi
Effective Collecting Area	15.24 * 20.32 mm (FAP20)
Collecting Area	16.5 * 23 mm
Image Size	300 * 400 pixels (FAP20 )
Dimensions (L*W*H)	36.2 * 44.2 * 15.85mm
Image Formats	RAW, BMP, JPG
Template	ZKFinger V10.0 ; ISO19794-2 ; ANSI-378
Template Size	1- 4KB (ZKFinger V10.0); 1,568 B (ISO 19794-2)
Grayscale	256
Weight	0.032kg
Operating Environment	-20 °C ~ +50 °C; 90% r.h.
ISO/ANSI Support	ISO-19794-2/4 ANSI-378

