SLK20M

Embedded Optical Fingerprint Module

Ideal design
Live detection function

Overview

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

Features

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

Specifications

Material	Optical
CPU	280MHz DSP
Flash	32 MB
SoC	RTOS
Image Quality	2 Million pixels CMOS
Encrypted Fingerprint Data	YES
Sunlight Operation	Yes, Dark Field and Automatic Gain / Exposure
Water Splash	YES
Dry, Wet, or Rough Fingerprints	Work well
Power Consumption	5V:200mA Scanning;5V:60mA idle (waiting for finger)
Live Fingerprint Detection	YES
LED	White
Product Certifications	FCC, CE, RoHS, PIV
Power Voltage	5V (USB) / 3.3V(TTL-RS232)
Power Current	200mA
Communication	UART (115200bps / TTL3.3V) / USB 2.0
Interface Socket	Molex 51021- 0700 (7 pin; 1.25 mm)
Image Resolution	500~1000 dpi
Effective Collecting Area	15.24 * 20.32 mm (FAP20)
Collecting Area	16.5 * 23 mm
Image Size	300 * 400 pixel (FAP20)
Module Size	36.2 * 44.2 * 15.85mm (L*W*H)
Image Format	RAW, BMP, JPG
Template	ZKFinger V10.0 ; ISO19794-2 ; ANSI-378
Template Size	1- 4KB (ZKFinger V10.0);1568 B (ISO 19794-2)
Gray Level	256
Weight	0.032kg
Operating Environment	-20 ℃ ~ +50 ℃; 90% r.h.
ISO/ANSI Support	ISO-19794-2/4 ANSI-378