

# User Manual

## ZK SLK Embedded Module

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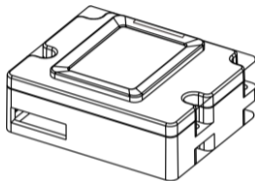
Version: 1.2

Date: July 2016

# 1. ZK SLK Fingerprint Module

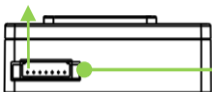
The new ZK SLK fingerprint module combines an innovative optical design, a 2 megapixel image sensor, and an ARM9 processor to create the ultimate biometric peripheral. It has a superior ability to capture large, high-quality fingerprint images in hardware. Communication to a host system goes via UART serial interface or USB interface.

Extraction and matching has been performed by the on-board CPU, and the fingerprint image or signed templates been transmitted to the host system. This SDK allows easy integration with new or legacy applications.

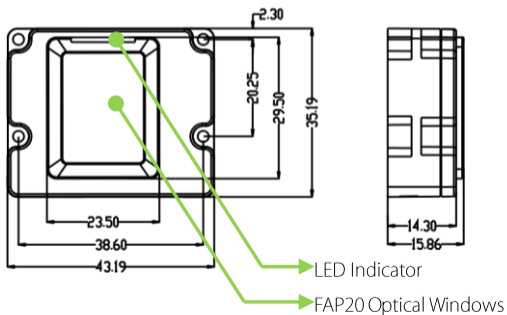


## 2. Mechanical Specifications:

Connector Socket 1



PIN	1	2	3	4	5	6	7
Detail	+5V	GND	Shield	USB D-	USB D+	UART TXD	UART RXD



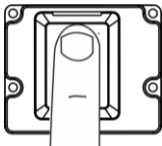
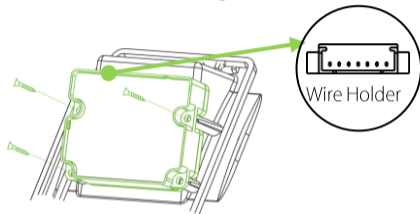
### 3. Specifications:

Technology	Optical
Image Capture Area	15.24 x 20.32 mm (FAP20)
Touch Surface Area	16.5 x 23 mm
Output Image Size	300x400 pixels (FAP20 )
Pixel Resolution	500 dpi
Image Bit Depth*	8-bit grayscale
Interfaces	3.3V UART 2-wire (115200bps); USB
Template Size	<2048 Bytes
Template capacity	2000

Template Format	Proprietary on Hardware
Operating Systems	Linux/Android Embedded SoC
Operating Environment	-20 to +55°C 0-90% r.h. non-condensing
Power Requirements	5V; 250 mA scanning 5V; 25 mA idle (waiting for finger)
Mating Connector	Molex 51021-0700 (7 pin; 1.25 mm)
Matching Technology	ZKFinger 10.0
Certifications	FCC, CE, RoHS

## 4. Installation on Host Devices

Follow the figures below to install the module into the device by tightening four screws in four holes and connecting the wire holder.



Standard Finger Orientation

Note: In order to ensure good experience and comfort of fingerprinting, it is recommended to install the module on a wall horizontally or at an angle of 0-45 degrees.

