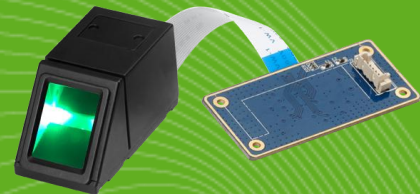


# EM-A200

## Optical Fingerprint Module



AraTek EM-A200 is an optical fingerprint module, with 32-bit high speed DSP processor, it realizes fast capture and matching. It offers USB and UART interfaces to connect with upper devices, including PC and SCM. It can be embedded into a smart product by connecting to basic peripheral circuits.

### Features

- **International Standard:** ISO19794-2, ISO19794-4, ANSI-378, ANSI 381 and WSQ supported
- **High Image Quality:** CMOS fingerprint technology with superior image quality
- **Compact Volume:** simple structure, suitable for volume limited products
- **Strong Adaption:** good adaption for wet/ dry fingers
- **Correction and Authentication:** support auto correction and 360 degree rotation authentication
- **Easy to Develop:** USB 1.0/2.0 protocol and UART supported
- **Cloud Platform:** seamlessly join in AraTek TrustLink™ biometrics authentication platform
- **OS Support:** Windows2000, XP, Vista, Windows7, Windows8, Windows10, Android

### Applications

- ATM, POS, PDA
- Access Control
- Consumer Electronics
- Information Security
- Time Attendance
- Voter ID Verification
- Mobile Identification
- Government Benefit Deliveries, etc.

## Physical Parameter

Circuit Size	25.6*52.8mm
Sensor Size	19.95*24.97*46.22mm

## Performance Parameter

Sensor Type	CMOS
Platen Size	19.5*14.3mm
Sensing Area	18*13mm
Image Size	256*288 pixel
Image Resolution	500 dpi
FAR	<0.0001%
FRR	<1%
Enrollment Time	<3s
Matching Time	<0.1s (1: 1), <0.5s (1: N, 100)
Matching Mode	1:1, 1:N
Capacity	1000 templates (off-line, TTL)

## Communication Mode

Communication Interface	UART TTL/ USB1.1/2.0
Baud Rate	57600bps

## Electrical Parameter

Work Voltage	3.6-5.5V
Work Current	50-120mA
Work Air Pressure	86kPa~106kPa

## Environment Parameter

Work Temperature	0° C~55° C
Storage Temperature	-40° C~60° C
Work Humidity	20~90% R.H
Storage Humidity	17%~96%

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