

EM-3011

Capacitive Fingerprint Module



As a cost effective fingerprint module, Aratek EM-3011 adopts thermal sensing technology to achieve excellent image quality with 256 grey scale in every single pixel. Its good performance makes it very attractive to use in various applications that require identity authentication. With design of compact structure and low power consumption, it enables fast capture by deploying Bione® dynamic optimization algorithm and patented live-scan fingerprint authentication technology.

Features

- **High Image Quality:** thermal sensor with superior image quality
- **Compact Volume:** simple structure, suitable for volume limited products
- **Fake Finger Rejection:** live-scan technology to reject fake fingers
- **Strong Adaption:** adaption for wet/ dry fingers
- **Correction and Authentication:** support auto correction and 360 degree rotation authentication
- **Easy to Develop:** USB and UART supported
- **Cloud Platform:** seamlessly join in Aratek TrustLink™ biometrics authentication platform
- **International Standard:** ISO19794-2, ISO19794-4, ANSI-378, ANSI 381 and WSQ supported
- **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

Sensor Size	20.4*33.4mm
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Performance Parameter

Sensor Name	ARS3011
Sensor Type	Capacitive
Platen Size	10.4*14.4mm
Sensing Area	10.4*14.4mm
Image Size	208*288 pixel
Image Resolution	508 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
Fingerprint Feature	384 bytes
Fingerprint Template	768 bytes
Capacity	500 templates

Communication Mode

Interface	UART, USB1.0/2.0
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Electrical Parameter

Work Voltage	3.6-5V
Work Current	80~100mA
Work Pressure	86kpa~106kap

Electrical 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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