





Model	EM-3011A	A400-M	A600-M	A700-M
General				
Picture				
Hardware				
Sensor	Capacitive	Capacitive	Optical	Optical
Platen Size	11.4*15.3 mm	14.5*19.7 mm	16.0*21.0 mm	21.0*26.0 mm
Sensing Area	10.4*14.4 mm	12.80*18.0 mm	15.24*20.32 mm	20.32*25.4 mm
Interface	UART (TTL 115200bps default), USB1.1/2.0 SPI (Slave 3.3V)	UART (TTL 115200bps default), USB1.1/2.0 SPI (Slave 3.3V)	USB1.1/2.0	UART (TTL 115200bps default), USB1.1/2.0 SPI (Slave 3.3V)
Supply Voltage	3.8-5V	3.8-5V	5V	5V
Current Consumption	50mA	50mA	120mA	150mA
ESD	Contact: ± 6KV Air: ± 8KV	Contact: ± 6KV Air: ± 8KV	Contact: ± 8KV Air: ± 15KV	Contact: ± 8KV Air: ± 15KV
Dimension	33*20*5mm (L*W*H)	35*23*5mm (L*W*H)	47.5*26.5*15.0mm (L*W*H)	34*57.5*18.0mm (L*W*H)
Weight	4.4g	5.5g	17.2g	31.9g
Biometrics				
Fingerprint Image	Image Size: 208*288 pixels Resolution: 508 dpi	Image Size: 256*360 pixels Resolution: 508 dpi	Image Size: 300*400 pixels Resolution: 500 dpi	Image Size: 400*500 pixels Resolution: 500 dpi
Grayscale	8 bits, 256 level	8 bits, 256 level	8 bits, 256 level	8 bits, 256 level
Image Format	RAW, BMP, WSQ	RAW, BMP, WSQ	RAW, BMP, WSQ	RAW, BMP, WSQ
Template Type	Bione, ISO19794-2, ANSI-378	Bione, ISO19794-2, ANSI-378	Bione, ISO19794-2, ANSI-378	Bione, ISO19794-2, ANSI-378
Fingerprint Image Distortion	/	≤1%	≤1%	≤1%
Enrollment Time	<3s	<3s	<3s	<3s
Matching Time	<0.1s (1:1), <0.5s (1:N ,100)	<0.1s (1:1), <0.5s (1:N ,100)	<0.1s (1:1), <0.5s (1:N ,100)	<0.1s (1:1), <0.5s (1:N ,100)
Matching Mode	1:1/1:N	1:1/1:N	1:1/1:N	1:1/1:N
FAR	<0.0001%	<0.0001%	<0.0001%	<0.0001%
FRR	<1%	<1%	<1%	<1%
Environment				
Operating Temperature	0°C-55°C	0°C-55°C	-10°C-55°C	-10°C-55°C
Storage Temperature	-40°C-60°C	-40°C-60°C	-40°C-60°C	-40°C-60°C
Operating Humidity	20-90% R.H	20-90% R.H	10-93% R.H	10-93% R.H
Storage Humidity	17%-96%	17%-96%	17%-96%	17%-96%
Work Air Pressure	86kPa-106kPa	86kPa-106kPa	86kPa-106kPa	86kPa-106kPa
SDK Supported Operating Systems	Windows XP/7/8/10,Android	Windows XP/7/8/10,Android	Windows XP/7/8/10,Android,Linux	Windows XP/7/8/10,Android,Linux
Certification				
Certification	/	FBI (PIV, Mobile ID FAP 10), STQC, FCC, CE, RoHS	FBI (PIV, Mobile ID FAP 20), STQC, FCC, CE, RoHS	FBI (PIV, Mobile ID FAP 30), FCC, CE, RoHS