

SM-93M

FAP30 Authentication Fingerprint OEM Module



Key Features



Certificates:

- FBI PIV and FBI Mobile ID FAP30 certificates;
- Biometric standard: ISO 19794, ANSI 381, ANSI-378, WSQ, JPEG2000, MINEX III compliance



Live Fingerprint Detection

- Machine-learning -based live finger detection technology to differentiate fake fingers
- Auto-reject fake materials including silicon, paper, rubber and more



Easy Integration

- SDKs available for Android, MS Windows and Linux compatible
- UART & USB multiple interfaces



Advanced Algorithm

- Template options: MIAXIS, ISO 19794-2 & ANSI 378
- MIAXIS proprietary Justouch® fingerprint extractor & matcher passed NIST MINEX III compliance
- Value-added customised APIs for software integration



Dustproof and Waterproof

- IP65 dustproof and waterproof

Served worldwide for

N+

National ID
Programs

Miaxis fingerprint
readers

3M

deployed in banks

MIAXIS® SM-93M is an FBI-PIV&FAP30 certified Fingerprint OEM Module, with a durable and compact 15 mm slim optical sensor. Born for identity authentication application scenarios. SM-93M can be easily assembled into mobile handheld authentication devices for indoor and outdoor uses. (SM-93 scanners are available)

Scenarios



· Finance and Banking



· Telecommunication/KYCs



· Vote election/Govt. ID Authentication



· Law Enforcement

Specification

Sensor Type	Optical	Dimensions	67.5 x 36.0 x 15.1mm(L x W x H)
Image Resolution	500dpi	Weight	Approx. 43g
Image Size	400 x 500 pixel	Operating Temperature	-10℃ to +50℃
Image Standard	FBI PIV&FAP30	Operating Humidity	20%RH - 90% RH
Live Finger Detection	Yes	Supply Voltage	DC 5V±5%
Sensing Area	20.32 x 25.4mm	Supply Current	≤200mA(USB powered) ≤50mA(USB powered at sleep mode)
Image Gray Scale	8bit, 256 levels	Ingress Protection	IP65 Certified
Image Format	WSQ, JPEG2000, RAW, BMP, ISO 19794-4, ANSI 381	Support OS	Linux Kernel 4.15 or higher; Windows 7 or higher; Android 4.1 or higher
ESD Immunity	±8kV contact discharge, ±15kV air discharge (Sensor Surface)		



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