

MARKLAND

MDF 201

FBI FAP 20

Optical Fingerprint Recognition



Overview

Format	Optical fingerprint
Capture Mode	Press
Capture Speed	< 0.5 sec
Fake Finger Detection	Supported
Liveness Detection	Supported
FBI Certification	FAP 20

Performance Parameter

Sensor	LES
Camera	COMS
Resolution	500 dpi
Grayscale	256 grayscale dynamic range
Image Size	300*400pixel
Supported Image Formats	RAW, JPEG, JPEG2000, BMP, PNG, WSQ (FBI-approved)
Matching Method	Comparison method (1:1) Search method (1:N)
Fingerprint Feature	512 bytes
Fingerprint Template	512 bytes
Security	256-bit AES fingerprint data encryption technology
False Recognition Rate (FAR)	<0.001% (at security level 3)
False Rejection Rate (FRR)	<0.005% (at security level 3)
Search Time	<1.0 sec (at 1:1000, average value)

Physical

Platen Size	16.5x21.0(W x L mm)
Sensing Area	17.6 x 23.0mm(W x H mm)
Dimension	59.0x31.8x13.6mm
Weight	37.8±5%

Communication

Interface	UART (TTL logic level) or USB1.1 compatible
Voltage	5V (typical), the range is: 4.2V-7.0V
Supply Current	3.3V (custom version), range is: 3.0V-3.6V
Minimum Power	60mA (typical), peak current: 80mA
Maximum Power	Standby 5uA
Image Recording Type	Operating state 64mA

Operating System

OS Support	Android, Windows, standard SDK development kits and development manuals are available
-------------------	---

Operation Environment

Storage Temperature	-30°C-+70°C
Working Humidity	-40°C-+80°C
Storage Humidity	20%-90%

Certifications

Standards	ISO19794-2, ISO19794-4, NIST imaging, ANSI378, and WSQ;
Certification	CE FBI